

STOP PRESS

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NEWS

High gloss promotion

MICROFLUTE

Continued from front page
major market opportunity for corrugated, and give customers a much wider choice in material specification," says director Terry Osley.

Cartonboard producers point out that microflutes are less likely to be specified for premium products and gift packs since the material cannot be embossed. They see it as a complementary rather than competing product.

Cartoflute is being produced at the Corrugated Products Lockerbie plant on a fingerless Astraide corrugator which, says general manager Bob Thomson, means that no direct pressure is put on the board during production, so avoiding weak points.

Lockerbie has become the first UK integrated corrugated plant to produce a 0.75mm caliper microflute in-house, says the company (King Edward Park, Lockerbie, Dumfriesshire DG11 2BL - tel: 0576 203111; fax: 0576 203436). Graphics can be litho or pre-printed, with a highly accurate print to knife register.

The corrugator can switch to E or B flute and runs at a speed equalling the newly installed Astraide laminator.

For more paper and board news, turn to our feature starting on page 38.

For further information K4 145

Call for details 0839 772268



Several in-line processes were used for these promotional cartons of tea

heavy metals.

The promotional carton on show had been mat emulsion varnished, spot uv varnished, foil blocked and embossed and was designed in-house to achieve a life-like portrayal of the cup of tea. These processes, as well as the printing, were all achieved in-line on the newly-installed press.

"We are now able to increase gloss to previously unknown levels through the application of a water based coating that is dried under a hot air knife before a second coating of high gloss uv," says Nick Benson, sales director of the company (74 Forest Road, Leicester LE3 0DG - tel: 0533 536644; fax: 514537).

The twin coating towers can also be used for metallic varnishes, as a seventh colour, which do not contain any

downstream. Maximum pack dimensions are 320mm width x 350mm length x 365mm height. The HS/D is also available in a version which can work with unsupported packs or with flat board.

Italian company Twin Pack, which is not part of the Aetna group, has just entrusted its agency for the British Isles to Aetna UK (Greensbury Farm, Bolshurst, Bedford MK44 2ET - tel: 0234 376744; fax: 376787).

So far, the UK soft drinks

cosmetics business to demonstrate its capabilities in market.

Another UK firm achieved by Benson last month with the installation of a Bole SP 103-ER diecut with stripping and blading.

This could not have been achieved previously," Mr Benson told *Packaging News*.

"and certainly not at a cost effective price." The company is now planning to produce a promotional carton for the

market to be used for metallic varnishes, as a seventh colour, which do not contain any

downstream. Maximum pack dimensions are 320mm width x 350mm length x 365mm height. The HS/D is also available in a version which can work with unsupported packs or with flat board.

Aetna has been slow to catch up with the success of carry handles on the continent, but that is all set to change, say both Aetna and Meri Mate. Twin Pack has so far had over 100 installations of its single and twin lane systems in the rest of Europe, and there are four of its machines in other UK sectors. Aetna is also now a distributor of 3M tapes and handles.

In a separate installation, the bottler plans to take two KHS Carmichael roll-fed hot

collators. Each of three flight bar systems use integral collators and orienting devices. Lane dividers are servo driven, marshalling bottles into specific lanes while ensuring that the booklet is not dislodged.

A perforating mechanism incorporated into the machines means that each collation can be split into two lots of 2x3.

Since bottle size varies, minimal downtime between runs

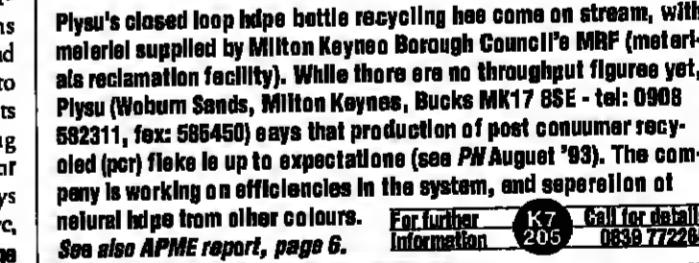
which achieved both objectives," says Mr Tabor.

The end user required containers to be handled at speed,

and by applying its flight bar technology, EDL solved the problem of how to group the containers.

EDL's high control machine wrapping bottles of pharmaceuticals

Milton Keynes helps HDPE bottle recycling



Plydu's closed loop HDPE bottle recycling line is now operational.

See also APME report, page 6.

APPOINTMENTS start on page 63

PRG levy deliberations

Sir Sydney Lipworth was due to announce where the levy will fall to fund the Producer Responsibility Group's recycling and infrastructure scheme as *Packaging News* went to press.

Amid growing speculation

as to who will be hit by the levy (see *PN* May), there is mounting concern over the amount needed to fund Valpak, who will run it, and whether there will be any legislation to underpin the scheme.

The main consultation report outlining all the submissions made to the PRG is

to be circulated this month along with Sir Sydney's proposal. He tells *PN* that it will include an explanation as to why the other options have been rejected.

"Further consultation"

There will then be a further month's consultation with the final revised PRG plan due for August but expected in September. The final goal is a promise of legislation in the Queen's Speech in November.

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"In some ways the latest initiative from the Institute of Grocery Distribution (IGD) - which aims to improve the legibility of the printed material on grocery packaging - is a strangely obvious one. Surely, making it easy for the consumer to read about any products details is a fundamental for any pack designer, brand owner or retailer? (see page 4).

The kind of company that spends thousands of pounds on designing and incorporating a pour spout, reclosable tab or tear tape into its pack - to aid the consumer - must already know how important it is to make packaging 'consumer friendly'. But can we assume this?

In a recent report published by Key Note, the total number of people requiring glasses in the UK is estimated to be 26 million, with a further 1.8 million people wearing contact lenses. So, with potentially 45 per cent of the population affected, this is by no means a minority issue. Also, the predictions about the next five decades seeing an explosion in the numbers of people over 60 in the UK, means that this will become as important as the issue of openability, previously highlighted by the IGD.

As with all of these things, something as simple as making a pack easy to read or easy to open, is not quite as simple on second glance. Although the IGD report acknowledges the pressures on industry to incorporate vast amounts of information on limited surface areas, it does not tackle this issue head on.

According to the IGD report, the two main issues with regard to customers' acceptance of labelling information are the ability to read and also the ability to understand on-pack information. It is evident that there is conflict between the legal requirements for ever more information to be displayed on pack and the requirement to keep information simple, clear and legible, says the report. And this is before any mention of eco-labelling.

As ever, there is also conflict on costs, or should I say conflict on on-costs?

It is all very well and good for these initiatives on openability and legibility to be set up, but in the light of the current wranglings about funding for the Producer Responsibility Group's (PRG) recycling and infrastructure scheme, one wonders what progress will be made without firmer financial commitment (see front page).

Indeed, with a representative from one major retailer telling the Bics conference (see page 3), last month that any costs associated with the PRG environmental plans "will be part of the normal commercial obligations" it does seem that any spare money for whatever initiative will not be forthcoming. As ever, and as the retailer said: "Some [costs] will be passed on, some will be negotiated in price talks."

You have been warned...

Gail Len, Editor

"

FOLDING BLISTERS - OVER 30 STOCK ITEMS

Shift on tagging policy

In a radical shift in policy, the body coordinating UK research into electronic article surveillance (eas) has switched from the pursuit of a single system to advocating 'open' standards for compatibility between different suppliers' equipment.

The Centre for the Exploitation of Science and Technology (CEST), previously followed the route of examining different eas systems with the objective of arriving at a universally acceptable solution (see PN Feb '94). But now, to enable source tagging - as opposed to in-store application of tags - to take off in the UK, the approach has, says Joshua Bamfield of consultant RMDP, "become more realistic".

Progress towards standards has taken an international turn with CEST entering into a strategic partnership with the Faculty of Logistics at the University of Dortmund, Germany. A standards initiative will only work if undertaken on an international basis, says CEST. The US National Association of Chain Drug Stores is also involved.

Mr Swerdlow is himself impatient with those suggesting that CEST has not moved

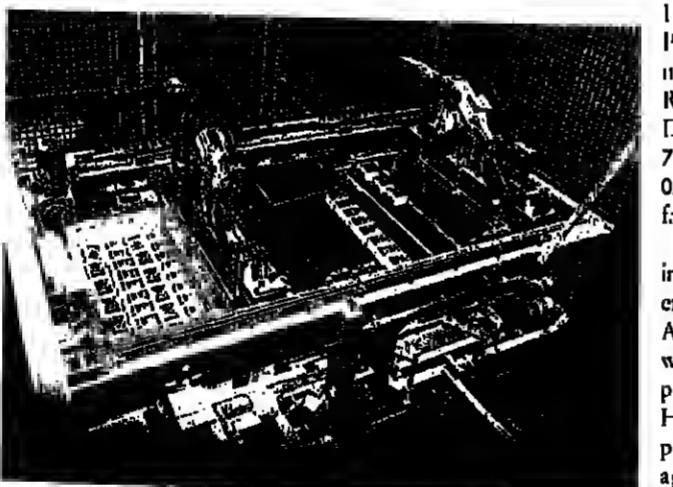
Speedy dual infeed small bag palletiser

A high speed dual infeed palletiser for small bags has been launched by FTH Foerdertechnik, offering advantages of flexibility for bagged product such as detergent, sugar and flour.

The system is especially useful for display pallets as used by the warehouse type supermarket. Aldi in Germany is already displaying one brand of detergent in refill bags palletised on FTH equipment, says sales manager Bob Pollard.

This high speed machine, designed with bagged detergents and soap powders in mind but suitable for other products such as flour, has a dual infeed changeover between product is said to be fast. Modification of the bag infeed tracks means the machine can stack 1kg and 5kg bags alternately. Collated trays

for further information 268 0838 772288



The dual infeed palletiser for small bags by FTH Foerdertechnik

and fits into lines where high productivity is required.

Some 8400 1kg bags can be palletised an hour, and

as well as other packs can be handled on the second infeed.

Pallet sizes which can be loaded on the machine include 800 x 1200, 800 x 600 and 400 x 600mm. Between the range of bags and trays which can be handled on the palletiser and the choice of pallet sizes, the system offers users the greatest flexibility, says FTH (Chatsworth House, Print Business Centre, Raynesway, Derby DE21 7SR - tel: 0332 672888, fax: 679888).

The single infeed palletiser supplying Aldi can load whole or half pallets. FTH Hamburg project manager Reinhold Reiss says other detergent suppliers in Germany will now have to equip themselves in a similar way.

For further information 268 0838 772288

K7 Call for details

Help for those with poor eyesight

Pack legibility for consumers with poor eyesight should be a major priority for designers and retailers, says the IGD (Institute of Grocery Distribution), which has unveiled proposals aimed at making key information easier to read.

This is the latest initiative in the institute's Consumer Concern Programme, which also sparked the continuing debate around openability. This set of proposals for legibility arises out of concern for the estimated 970,000 people in the UK who are blind or partially sighted and the increasing average age of the population.

"Lots of people are talking about what information should go onto packs. Our concern is that people whose eyesight isn't perfect should have a chance of

being able to read that information," says Dr John Gill of the RNIB (Royal National Institute for the Blind) introducing the initiative.

Headed boxes can be helpful"

Before the reading stage, information can be made easier to locate by simply adapting layout. Headed boxes, preferably tinted to a lighter colour than the main pack, can help.

Bold lettering, bullet points and italics should be used selectively for easier reading. Features to avoid where possible are long lines of text - especially small lettering - hyphens,

right justification, lines which are close together and lettering which is shadowed.

Point size, though not the only consideration, is clearly important, says the IGD. Six point is recommended for normal text and 12 point for warnings.

White text on a dark background should not be used under 12 point, below which dark on light is better. It is best to avoid certain combinations because, the IGD points out, 16 per cent of the male population is colour blind.

Budgens, which is represented on the IGD advisory working group alongside other retailers, manufacturers and consumer groups, says it has already implemented many of the recommendations on its regenerated own label prod-

Legibility Recommendations

Key recommendations from the IGD to enhance the legibility of on-pack information are:

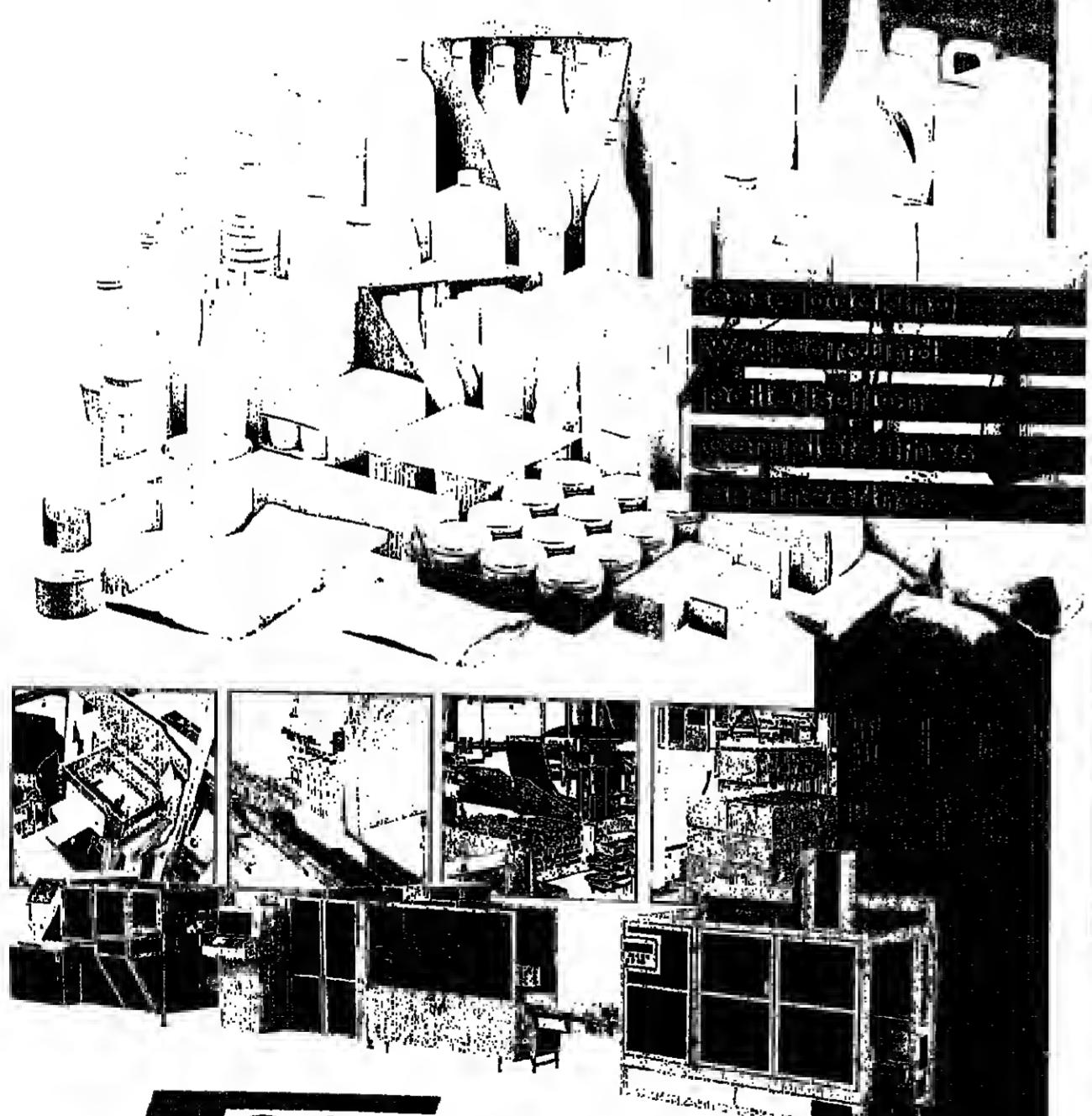
- Use boxes to make the basic layout clear,
- Use bold typeface, bullet points and italics selectively,
- Use short, well-spaced, left-justified lines of text, mixing upper and lower case,
- Use dark text on a lighter background where possible in text less than 12 point,
- Use type of six point and upwards, 12 point for warnings,
- Use sans serif fonts,
- Use recognised diagrams where possible.

technical limitations with packs such as yoghurt pots, he says, where print quality may be so poor that even six point may be unclear.

Birmingham University's Centre for Applied Gerontology, also part of the working group, has worked on legibility research for Tetra Pak. Graphic designers for its cartons will now be given a set of recommendations based on this

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Overprinting system gives paints flexibility

Flexibility was the key to solving a problem for Chromacolour International Ltd in labelling its just launched mail order range of multi-purpose artists' colours.

The solution was achieved by installing a complete overprinting and labelling system custom built by Sessions of York (The Ebor Press, Huntingdon Road, York YO3 9HS - tel: 0904 659224, fax 644888).

Described by Chromacolour as the only major product to be launched onto the fine art market during the past 30 years, the paints are supplied in 80 shades, and in metal tubes or clear plastic bottles.

Variable Information

"When we introduced the range we couldn't know how well and in what ratios the various colours would sell," explains Jon Prudence, Chromacolour's director of marketing. "As it was impractical and costly to pre-print labels for each colour, we opted for a system which could overprint

variable information to match individual product demand."

The system comprises a Speedline III label creation package, a Mustang 1000 thermal transfer printer with rewinder and an RC30 automatic labeller. For the tubes, Sessions provides a series of 24 wraparound labels incorporating a printed colour strip as a point of reference. The bottles feature a five colour printed wraparound label containing fixed information, including company brand logo.

Applied in register

The Mustang 1000, linked to its computer system and driven by Speedline III, overprints both types of label with the colour name - in English, French and German - colour number and permanence rating at speeds up to 125mm a second. The labels are then applied in register to the tubes and bottles by the RC30, operating at up to 70 containers a minute.

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Recycling efficiencies gauged

Compared with energy recovery, and without that as an option, mechanical recycling rates for ldpe bottles would have to top 52 per cent to make the same energy savings, says a report supported by APME (Association of Plastics Manufacturers in Europe).

Research carried out with successful recycling schemes run by Dow Europe, Otto and Ravago shows that mechanical recycling alone is inefficient unless combined with energy recovery, says the APME. Least efficient is a combination of recycling, incineration with-

out energy recovery and landfill, according to the report.

The research comes as Plysu plc begins production of recycled ldpe flake from collected containers. Material is diverted from the Milton Keynes municipal waste stream (see page 1).

According to Brian Haigh, technical director at Plysu, the APME is right to be looking at ways to make the best use of resources. In Plysu's case, it is better to source the material it requires locally rather than, say, from Germany, he explains, but the company is

not saying that any single waste solution is the answer.

Plysu and Malcolm Macintyre lists commercial benefits to the company alongside community interest and the meeting of government targets as the reasons behind Plysu's initiative. The company hopes that the installation will supply it with 1000 tonnes of recyclate in the first year, rising to around 5000 tonnes a year.

The APME believes the findings of the Dow report support the view that specific material types, waste streams, and geographic infrastruc-

tures will all determine which balance of solutions is the most efficient.

"Both legislators and consumers have adopted the mechanical recycling message with such enthusiasm that existing infrastructures may soon be overwhelmed," comments co-author of the report David Russell of Dow Europe.

Copies of the report *Weighing up the Options* by David Russell and John O'Neill of Dow and Ian Boudreau, can be obtained from the APME (Ave E Van Nieuwenhuysse 4, Box 3, 1160 Brussels, Belgium - tel: 01032 2 6728259; fax: 6739395).

For further information K7 Call for details 200 0839 772268



Sleeve gives visibility

A single piece of board which, when erected, provides an effective 'sleeve' to allow visibility for two bottles while at the same time giving strength and durability to the overall pack, has been designed by Trenton Box Company Ltd for products in the Simoniz range.

This is achieved by using a carrier board and a combination of cuts and creases, making

it possible to despatch the pack to Simoniz in the flu, says Trenton (Marston Road, St Neots, Huntingdon, Cambs PE19 2HF - tel: 0480 47381; fax: 406225).

The so called Twin Pack is used by Simoniz for its Liquid Diamond Polish and Liquid Diamond Shampoo.

For further information K7 Call for details 199 0839 772268

Twin aperture container first

A twin aperture, 30 litre container has been developed by RPC Containers Rushden for leading chemical distributor, Ellis & Everard, the first time this combination has been used on a large container.

Pack design is based on RPC's 30 litre square/round container and will be used to pack hydrogen peroxide.

The mono layer ldpe container features two closures, a 66mm vented cap for the main aperture with a secondary trisize $\frac{3}{4}$ in bung on the other side of the top of the container. This ensures that there is no glugging when pouring, according to RPC (Northampton Road, Rushden, Northants NN10 6AL - tel: 0933 59136; fax: 410406).

Special heavy duty ldpe has been used for this application because of the aggressive nature of the product being packed and the containers have received UN Packing Group II certification.

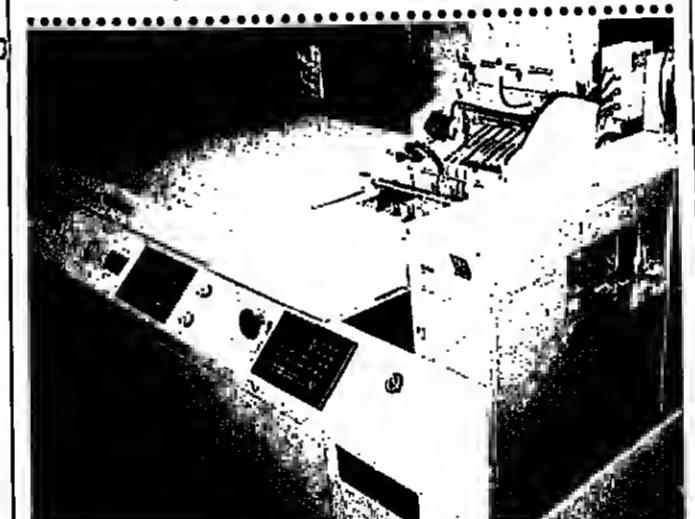
"We have been delighted with RPC's technical input and the container which has resulted," says David Morton, product manager at Ellis & Everard. "In particular the



The mono layer ldpe container features two closures, a 66mm vented cap for the main aperture with a secondary trisize $\frac{3}{4}$ in bung on the other side of the top of the container

unique anti-glug feature is a major boon for the packaging of this type of product."

For further information K7 Call for details 116 0839 772268



The metric batch counter with a Sollas plastic/paper bander

Metric batch counter

The first metric batch counter available from Longford Equipment International was demonstrated with a Sollas plastic/paper bander at Dutch exhibition, Macropak.

Suitable for products ranging from business card size up to 6×10 in, the machine is perfect for anyone who currently wraps products, but would rather just band, says Longford (Gouverneur Roppenberg 81/2b, 3500 Hasselt, Belgium - tel: +32 11284026; fax: +32 11284026).

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Ps business integration

With a view to pursuing its multi-producer customer focus, Elf Atochem UK Ltd's polystyrene business sales team has been integrated into the commodity plastics sales division based at the company's head office in Thatcham, Berks.

John Barron, the polystyrene business manager, and his team, will now report to

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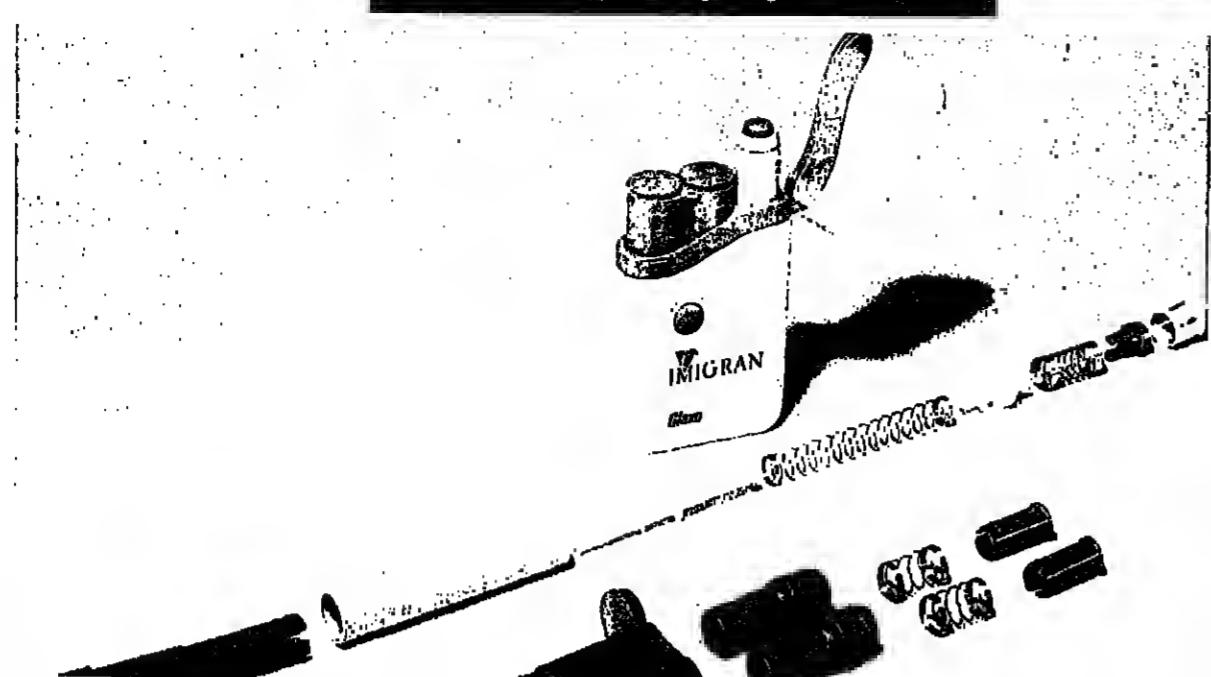
Plastics prices climb

Two plastics material suppliers - DuPont and Elf Atochem - have announced price increases for their materials, continuing the overall upward trend over recent months.

The price for all grades of DuPont's Mylar polyester packaging film has increased by a minimum of 15p per kg which is necessary, says the company (0442 218500), to offset its reduced margins. Rising raw material prices and the need for higher spending on environmental protection and waste recycling has accounted for this pressure on margins.

Elf Atochem says that with the supplies of styrene monomer and polystyrene becoming tighter over the last six months, the upward pressure on prices that has been experienced in the market since the end of 1992 is expected to accelerate during 1994.

A 20 per cent increase has led to a minimum price for general purpose polystyrene of £740 a tonne and £820 a tonne as an average for all ps grades, says the company (0635 870000).



Self-injectable device for anti-migraine drug

Glaxo's anti-migraine drug sumatriptan, branded Imigran in the UK, is now available for patients to administer themselves using a sophisticated self-injectable device.

The multi-part pack, which has taken eight years to develop, is manufactured and assembled for Glaxo by Beets Plastics, part of Courtiards Packaging, within the Clean Room at the company's

Wrexham factory. The project represents an overall investment of £5 million.

The auto-injector device, and the overall pack presentation, was designed by Glaxo Research and Development Ltd, in consultation with other Glaxo companies and Beets Plastics (Colesher, Essex CO4 4HE - tel: 0206 753400, fax: 844002).

The function of the system

with a pre-filled syringe.

This procedure is said by the company to save the patient from the sight of the syringe or needle even when loading or unloading from either of the two refill cartridges.

The pen kit itself is comprised of six separate mouldings and two springs while the refill pack has two assembled components which contain two sub-assemblies, each made up of two mouldings and a spring. The light grey carton displays the Glaxo name and the brand name - logo tampon-printed in four colours - and is itself manufactured in three parts.

The complete pack consists of a pen kit which is a spring operated injector, and two

refill cartridges all contained in a slim case, specifically designed to be non-trusive to carry and easy to use. In size and appearance the pen kit resembles a small marker pen and can be loaded by the user

Once the refill cartridge is inserted, a housing clip at the base of the cartridge locks into a circular hole on both the front and back of the carton. To remove the refill pack after use, the patient simply depresses the two visible tabs and lifts the cartridge out.

All components, which are manufactured from either pp, acetal or abs, are made, assembled and tested within Wrexham's Class J Clean Room. Functional tests are also carried out on each device and refill cartridge before it leaves the plant.

The pen kit and double

refill cartridge are held in

For further information 115 0839 772288

High speed continuous laser printing for high volume users of barcodes is possible with the Laserfold 300E printer from Pentax (Heron Drive, Langley, Slough SL3 8PN - tel: 0753 792792, fax: 792794). The 300E will print 300 dpi on continuous feed labels, and is designed for packaging and distribution environments.

As it uses laser rather than

impact mechanisms it has a low noise level, below 53 decibels

says Pentax (Heron Drive,

Langley, Slough SL3 8PN - tel:

0753 792792, fax: 792794). The

printer measures 460 x 185 x

523mm and weighs just 20kg.

It can be connected to most

mainframe and midrange computers, or used on a network.

Offering a series of proprietary interfaces, its standard emulations include the HP LaserJet II

For further information 193 0839 772288

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noise level, below 53 decibels

says Pentax (Heron Drive,

Langley, Slough SL3 8PN - tel:

0753 792792, fax: 792794). The

printer measures 460 x 185 x

523mm and weighs just 20kg.

It can be connected to most

mainframe and midrange computers, or used on a network.

Offering a series of proprietary interfaces, its standard emulations include the HP LaserJet II

For further information 193 0839 772288

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MEET THE ASSOCIATION

The carton challenge

ACE, the Alliance for Beverage Cartons and the Environment has only two goals - to raise awareness of the environmental benefits of the beverage carton and to address related environmental issues.

Formed in 1990 as a non-profit making international coalition of 12 manufacturers of paperboard and beverage cartons, it has offices throughout Europe for its national associations and alliances with other federations worldwide.

A small group of competitors came together recognising the threat to their business through increasing environmental legislation, and realising they had a lot in common, they set up ACE.

The Alliance does not market the industry's products, instead it provides a homogeneous view and aims to provide a quick and unified response to environmental matters as they affect it.

Money is pumped into research and projects in order to ensure the goal is achieved, which has the double end of practical projects to increase recycling, collection and sorting of waste and political lobbying on the European and national fronts.

This is all coordinated by ACE's director general, Lyn

Trytsman-Gray, at the Alliance's headquarters in Brussels. Ms Trytsman-Gray has many years of dealing both for the Government, consultancies and trade associations in Brussels and understands the machinery and machinations of Brussels's bureaucracies and foreign governments.

"Ensuring all the recovery options are available to member states"

Task Force, which comprises 20 people who thrash out technical matters.

Each year a number of projects are chosen to receive central as well as national funding. Some of 1993's projects include a plan a tree campaign involving 50,000 participants and the production of an environmental knowledge game in Denmark.

France, Germany, the Netherlands, Denmark and the UK all have market committees with a chairman. These decide which projects will get funding, discuss European Union (EU) policy and report to the Secretariat - Ms Trytsman-Gray and her two assistants. They then check that the committees are not duplicating efforts and pool resources.

In the UK during 1993, collection schemes were set up with local authorities, as well as a business link with the Celltech mill, where cartons are recycled into tissue paper.

"The UK is one of the hardest areas. It is more difficult to get markets for materials. There are not enough recyclers and processors," explains Mrs Trytsman-Gray.

"We are reluctant to go full steam ahead in the UK on collection since we don't just want to collect for the sake of it. In France they are keen and

it's easier," she adds.

Most of the cartons recycled in Germany go to Strepp and are made into tissue paper, kitchen and toilet roll. "We look at increasing recycling, but we work out what is environmentally and economically viable."

At Strepp, in Germany last year around 51,600 tonnes of cartons were recycled, but the economic and environmental costs were high. "We only believe in setting targets where it makes sense," Mrs Trytsman-Gray tells *Packaging News*.

"Every country is different. We are trying different means of collection to see to what extent the consumer will separate in flats, or houses in each country. We recognise that the system operating in Germany will not work in France. It really does depend on the consumer and sometimes it's quite frustrating."

In Finland one of this year's projects is to establish how many cartons are returned and how good this material is.

ACE will publish some preliminary results on this shortly.

Other ongoing projects include investment in pyrolysis, to separate the varying elements of the beverage carton in order to facilitate recycling and an adventurous research programme with the Technical University of Lausanne to develop a semi-automatic sorting robot for used packaging.

"As selective collection,

sorting and waste management systems used for packaging become more prevalent in Europe, there is a growing

need to develop more sophisticated sorting systems to handle packaging waste," explains Ms Trytsman-Gray.

Currently sorting is carried out manually, often in very noisy and dirty conditions.

ACE hopes to convince the waste management companies to commercialise, buy and install the robots.

"This robot has the ability to sort from a virtually unlimited mix of materials such as cartons, plastic bottles, aluminium cans etc. However, at present only one fraction can be sorted at a time. A multi-fraction sorting system is planned for the next phase," says Ms Trytsman-Gray.

Average sorting speeds for



Director general Lyn Trytsman-Gray coordinates the ACE effort

to keep pace with the increasing automation of the rest of the line, says Jenton, and the increasing use of robotics by cigarette manufacturers has put more pressure on carton converters to help in this process.

The most important

for the next phase is to develop artificial vision to identify the identification speed of packaging items to up to six objects a second.

Although the printing lines

could produce the hinged lid carton blanks at high speeds, conventional band wrapping machines could not handle stacks of up to 600 blanks without damage, says Jenton (Pioneer House, St Mary Bourne, Andover, Hants - tel: 0264 738666, fax: 738552).

As well as overcoming these

problems of banding stacks at speeds up to 25 a minute, the CB600 has also been designed

to handle the potential difference in stack height, which can be up to around 12mm. The machine therefore measures each stack to allow for these height variations.

Led by Alan French,

works manager at Jenton, the team first considered using a completely mechanical machine and then a combination of electric actuators and servo motors. These options

could not deliver the speed and flexibility required at the right price, however and so pneumatic technology from Festo was chosen.

Aside from the practical

projects to aid collection, sorting and recycling, Europe's environmental policy

is the Packaging Directive

the Alliance's other footpath.

"The packaging Directive

is a priority and most of our energy goes into this. The common position is reasonable - not ideal but a reasonable compromise. The sooner the Directive is resolved the better.

However, there's a lot of detail in the detail and a lot to be worked out at national level. The problems we have had until now will be nothing compared to implementation."

ACE also produces a quarterly newsletter detailing the activities of its members

worldwide as well as providing an update on EU and national environmental and packaging related legislation.

The Alliance for Beverage

Cartons and the Environment, 16

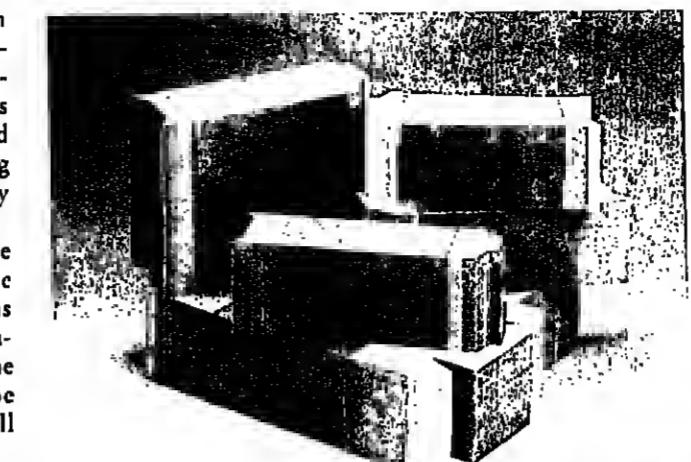
avenue Joseph II, Box 2, B-1040

Brussels, Belgium - tel: 010 322

219 0613, fax: 219 0222.

NEWS

Banding machine keeps up with cigarette speeds



A banding machine which allows converters to supply cigarette carton blanks to its customers in a way that matches the increasing speeds and automation of cigarette packing lines, has been developed by Jenton International Ltd.

Called the CB600, the principles employed in the design of this bander means that it can also find applications in other areas, such as the folding carton market, or be converted to provide a full wraparound option.

The loading of cigarette carton blanks has struggled to keep pace with the increasing automation of the rest of the line, says Jenton, and the increasing use of robotics by cigarette manufacturers has put more pressure on carton converters to help in this process.

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the stack being handled. Each stack is sensed individually so that the machine can accept stacks of random heights providing the differential does not exceed 12mm.

Once accepted into the machine, a heat sealable, pre-coated kraft paper is banded around the stack of carton blanks. The pe coating is on the outside allowing for heat sealing on the vertical face of the pack. After banding, the pack is transferred from the banding station by an intermittently driven conveyor belt.

As well as providing a pack that can be handled easily at the loading stations of cigarette packing lines, other benefits include a saving of banding material. Flexibility is also provided as sealing the band with heat rather than glue, allows the position of the seal to be changed if required. The only physical adjustment needed is when the size of a pack changes.

For further information K7 Call for details 0838 772268 136



A completed cigarette pack with a band wrapped around the top of the carton.

Plastohm uk

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available. A clay coated version called Unicote Twistwrap is used extensively for Pick and Mix toffee and sugar confectionery, while the uncoated Alibus twistwrap, which can be flexy printed and waxed, is suitable for lozenge and tablet shape bunchwrapping. *Packaging News* would like to apologise for any confusion that may have been caused.

Superscan Micro

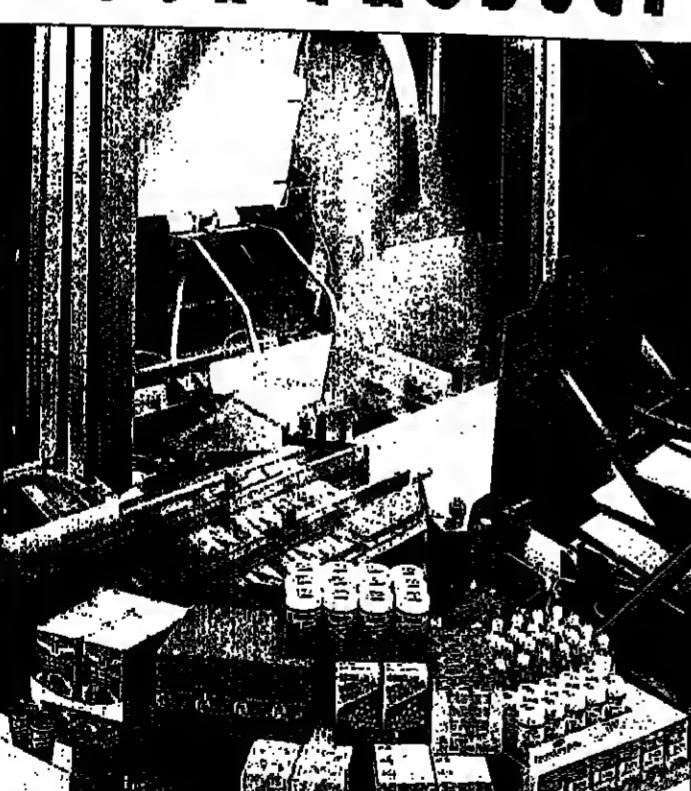
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Twistwrap speciality

Following our feature on speciality papers last month *Packaging News* would like to make it clear that Sappi Specialities (0865 516011) does not sell pre-waxed or converted speciality papers, but manufacture twisting papers for the confectionery and ote healthcare markets which are then printed and waxed by converters. Two twisting grades are

available.

A clay coated version

called Unicote

Twistwrap

is used extensively for Pick and Mix toffee and sugar confectionery, while the uncoated Alibus twistwrap, which can be flexy printed and waxed, is suitable for lozenge and tablet shape bunchwrapping. *Packaging News* would like to apologise for any confusion that may have been caused.

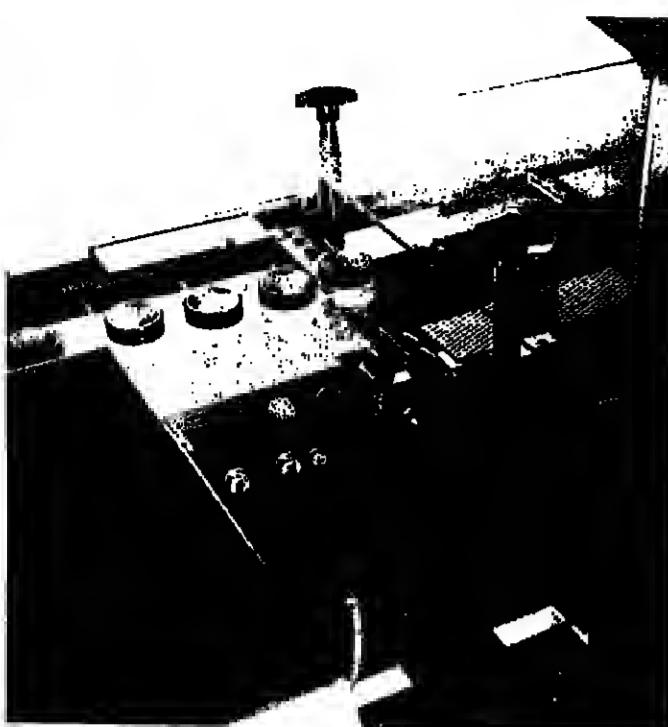
Two twisting grades are

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NEWS



Smooth transmission: the Grasby Best D30 checkweigher

Smooth pot moves

Potteries producer Creighton's Naturally plc chose to install a Grasby Best D30 checkweigher because of its ability to maintain smooth transfer of pots down the production line.

The checkweigher is used to check 15ml pots of the Body Shop's Lip Balm, Eye Gel and Under Eye Cream which is fed into the pot through nozzles and after cooling and coding, is capped and labelled. To solve the problem of product emerging from the capping machine at an erratic pitch, an acceleration system slows the product down to create even spacing.

Pots are then checked by the D30 against weights varying between 30g and 40g, according to the specific gravity of the product. Those meeting the standard move on to be shrinkwrapped, while underweight pots are rejected.

The line handles some 40,000 pots each day, says Grasby Best (Little Forge Road, Park Farm North, Redditch, Worcs B98 7SF - tel: 0527 517283; fax: 517284).

"The D30 is extremely reliable," says Peter Young, quality assurance manager for Creighton. "Although most of the time it is handling these very small pots, we can, using the preprogrammed library pages in the D30's memory, prepare the line to handle packs weighing up to 1kg, very quickly."

Fax further information K7 Call for details 0838 772288

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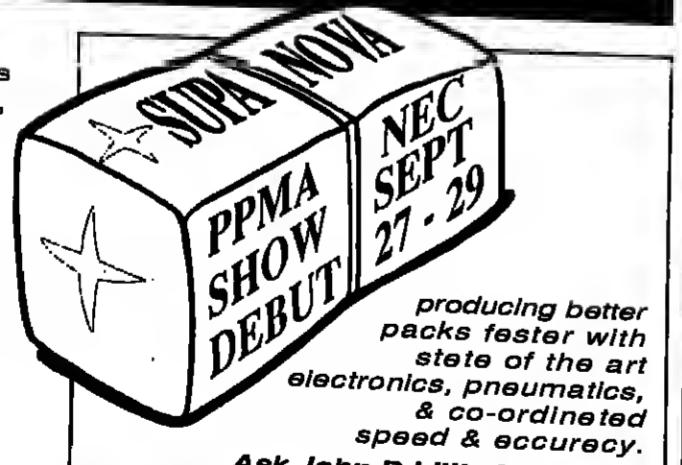
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Quala spa standard trigger spray: for Tesol: one of six in the range

Snap on trigger for cleaner range

Techsol Ltd is the first UK user of Quala spa's standard trigger spray - adopted for the Tesol brand of bathroom and kitchen cleaning products - which is currently on sale in most Safeway stores.

The trigger spray is a snap on design, which led to bottle supplier, Seanbech Ltd (tel: 0928 561747) changing the neck thread on its 500ml container. This standard trigger is just one of six in the Quala range.

While the shroud remains the same, various inserts can be supplied to give differing performances. Two multi purpose inserts can be supplied, one for viscous and one for milder cleaning products while the latest in the range, is a foamier for carpet cleaners. Another recent addition is a fine atomiser insert which is suitable for such products as air fresheners or insecticides.

Further information is available from the dispensing division of Quala spa (Laystall, Cross Hayes, Malmesbury, Wilts SN16 9BE - tel: 0665 824390, fax: 0665 747184).

Fax further information K7 Call for details 0838 772288

Company sails to Aylesford

The central office of SCA Packaging Ltd has moved from Packet Boat House, Cowley to the SCA site in Aylesford, Kent.

The new address is: SCA Packaging Ltd, New Hythe House, Aylesford, Kent ME20 7PB - tel: 0622 883285, fax:

883290. The company's central sales and marketing functions are also moving to Aylesford, and the Market Development Group can be contacted at:

European Technical Centre, Aylesford, Kent ME20 7TW - tel: 0622 883284, fax: 716308.

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PACKAGING NEWS/JULY 1994

COMPANY NEWS

The British Printing Company Ltd (BPC) is delaying its flotation on the stock market due to market volatility and the general downward movement in the stock market since the announcement, says the company. It is now unlikely that BPC will seek a listing before the end of the year.

Grosvenor Venture Managers Limited have provided all of the £2 million institutional equity finance for the management buy-out of Welsh-based Castle Packaging Ltd from its parent company, Castle, a distribution/stockholder of gummed paper tape, dispensers and allied packaging products.



Aerogen's high speed flame plasma treatment system for webs

Norcross plc, the branded building materials and specialist print and packaging group, announced an increase of 7.4 per cent in sales to £378 million for the year ended 31 March, 1994. Earnings per share (eps) were 6.6p over a restated loss of 2.4p in 1993. Gearing was reduced to 39.5 per cent from 94.8 per cent after £19.4 million of property disposals and a rights issues in June 1993. There was also a substantial improvement in profit before tax to £17.1 million against a restated profit of £2.6 million for 1993.

Jemee Howden & Company has purchased the technology and a number of the assets of Gestec Industrial Ltd, a new division of Jemee Howden, Howden Packaging Equipment (Scotland), will transfer production of Gestec's bottling line equipment from Stirling to premises in Renfrew (041-986 6711).

Cascades Djupafors Ltd has been set up in cooperation with Ekman Cleave Group (081-668 4141) which will act as the Swedish paper and board mill, Cascades Djupafors AB's, UK agent.

Alveulace-Lenze Holding Ltd announces that following the acquisition of Lawson Mardon Group its packaging division is now called Lawson Mardon Packaging (0272 464200).

Amalgamated Packaging, part of the Remploy Packaging Group, has recently signed a second partnership sourcing agreement worth in excess of £700,000 a year with NSK-RHP, the ball and roller bearing manufacturer.

MY Holdings, the paper and plastic packaging group, has acquired the businesses and assets of Cleanprint and Jensa Packaging, suppliers to the healthcare sector at a cost of £1.8 million.

Papeterie Ltd, the UK stationery products firm, has acquired the sole distribution rights in the UK to the HQ range of Thai paper and packaging products.

Following a closing audit conducted by the Cardiff Institute of Higher Education and completion of a stringent upgrading programme, Field Packaging Newcastle has recently been accredited by the Royal Society of Health and registered under its hygiene scheme for the food packaging industry.

Asi/Gomán AB's board of directors has decided to concentrate the production of corrugated board in Germany and Switzerland of only three sites. This will result in production being discontinued at Kerlsruhe and Basell. However, sales and product development will continue at Kerlsruhe.

COMPANY NEWS



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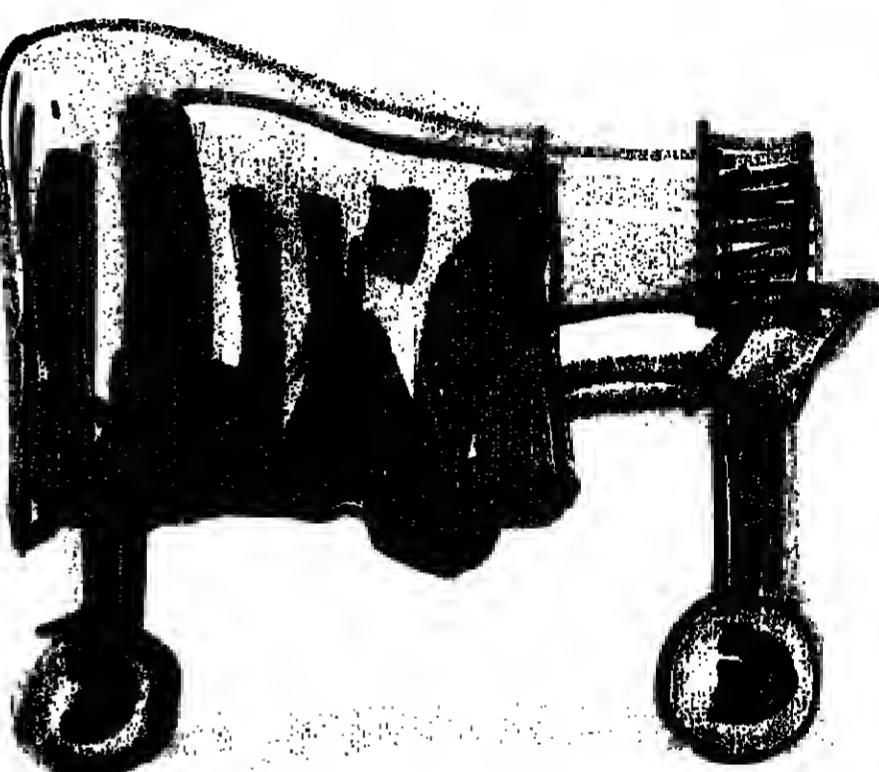
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PACKAGING NEWS/JULY 1994

1964  1965

PLASTICS SET A SIXTIES TREND

Experiments with plastics - some of which survived, but many didn't - for packing all sorts of products led one enthusiast in 1964 to predict that by the 1990s nearly all food packaging would be in flexible films. Paul Gander finds out why.

Back in January 1964, the enterprising company Maurice James was marketing coal in kraft sacks with an artistic logo spelling out "Trend". Some things are just difficult to predict.

There was more of a trend around with plastics, which were moving into new areas, some of which they stayed in and some, such as the cigarette cartons highlighted last month, they didn't.

Cheese went into pvc blister packs with lids of the same material replacing waxed paper cups with ps lids for Ilchester Cheese with Beer. PN identified this as a "trend setting use of plastics", though that particular flavour of cheese appears to have gone the same way as coal a long time before it.

Another plastics replacement for waxed board came in '65 with Ski Yogurt's move into churn-shaped ps pots. A combination injection and blow moulding process was used by the converter to achieve the same shape as the paper-board pack it replaced.

Lever Brothers launched Vim scouring powder in an hdpe bottle with pouring holes in the pe lid. It was the first scouring powder in plastic but, we were assured, Ajax was not far behind. The pack replaced the traditional metal-ended board canister. Although housewives were reported as preferring the plastics jar, the change involved a 2d increase in price, passed on to the consumer, for each pack.

But this growth in applications for plastics was leading some in the industry to rather oversimplified predictions in the longer term. Mr Selby of the British Food Manufacturing Industries Research Association prophesied that "within the next 26 years flexible film packaging will supersede all other forms of food packaging for retail purposes."

Among the product shown wrapped in film in the February '64 issue was Galbraith's Silver Strand tea, which used coated cellulose film and

lime supplied in elongated lightweight bottles. Other advances on the glass front included the use of square-shouldered bottles for Anderton's sherry, rum, whisky and port.

There were also, Mr Selby might have noticed, shifts from plastics films to glass - not always the opposite. Silvikrin's manufacturer Beecham carried out a customer survey which showed that customers preferred a glass minibottle to a sachet.

Even the most basic assumptions were being



LEFT:
HOUSEWIVES
WERE SAID
TO PREFER
VIM IN A
PLASTICS
CONTAINER

questioned. Does whisky really need to be packed in a glass bottle? Not necessarily, decided Bardro, why not put it in a plastics aerosol? In this way Scotch Mist became "the first hard liquor in the world to be marketed in aerosol form". Maybe Bardro saw this, too, as the beginning of a trend.

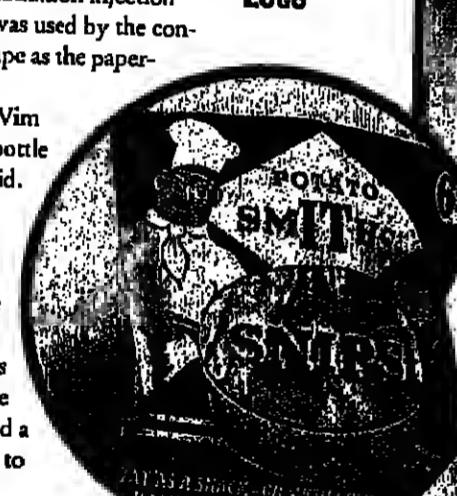
There were other interesting results from customer research carried out in the US which showed that 40 per cent of respondents saw the ring pull on beverage cans as a disadvantage, 21 thought it was not an advantage and 39 per cent saw it as an advantage. Criticisms included the difficulty of removing the ring pull after levering it up and the unpleasantry or even danger of drinking out of it afterwards.

So-called "pull-tab" cans reached the UK in October '64, when consumers were able to try out the pack - used for Ind Coope's Long Life

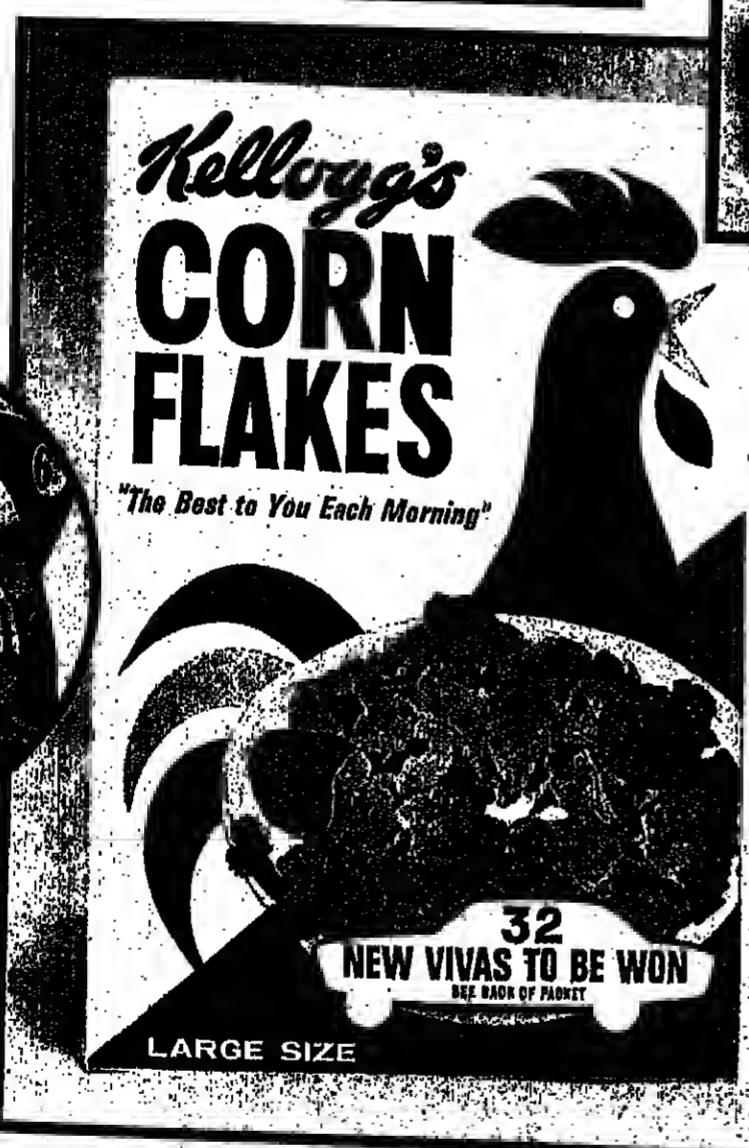
in March, tobacco from the Imperial Tobacco Company first sealed in cellulose film laminated with aluminium foil. More complex laminates included an aluminium/ paper/ Pliofilm rubber hydrochloride combination shown in the April issue used in pouches for Bisk Slimsups.

The one-trip glass bottle for soft drinks was on its way, with marketing trials running over the summer of '64 for Pepsi Cola and Rose sparkling

RIGHT:
KELLOGGS
LAUNCHED
ITS
CORNFLAKES
WITH ITS
FAMILIAR
COCKEREL
LOGO



ABOVE:
SMITH'S
SNIPS WERE
ONE OF
THE MANY
PRODUCTS
PACKED IN
CELOPHANE



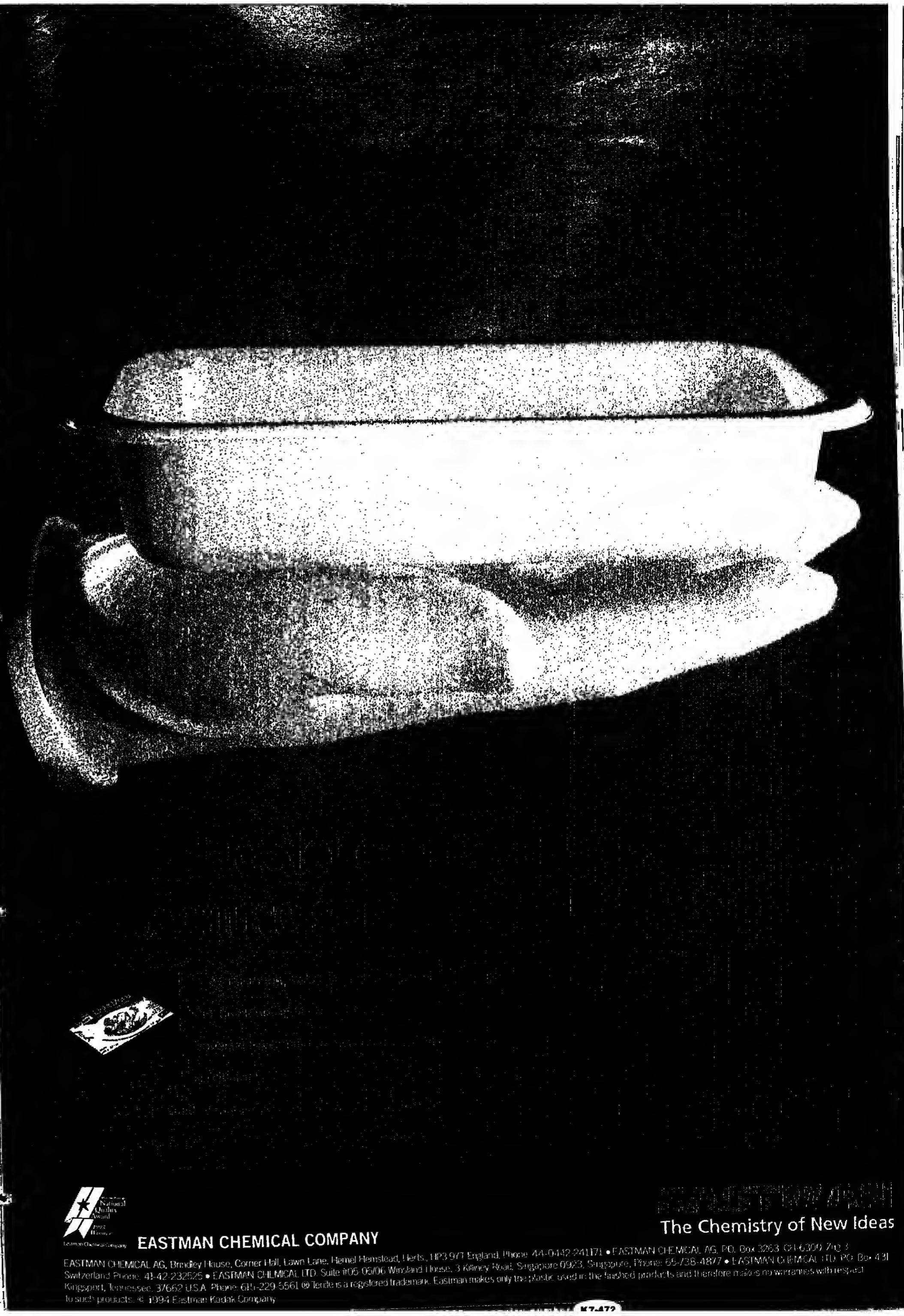
ABOVE: SKI YOGURT MOVED ITS CHURN-SHAPED POTS FROM WAXED PAPER INTO PS

beer - for themselves. An estimated three-quarters of all beer cans in the US already had ring pull tops. Called the Pop Top, the closure offered an "element of convenience that will be especially acceptable at parties and picnics, and when sailing or caravanning," said Ind Coope.

Paper and board were not lagging behind in innovation, with an easily erected carton which arranged eggs in a single line, offering good transit protection and visibility, wrote PN in February '64. The Boneg carton was printed, cut and creased on a Champon machine (presumably an all-singing, all-dancing model) called the Rock'n'Roll.

Cartoning was also developing new systems - many of them coming out of the UK - with concepts, said PN, never before applied to the construction of cartons.

PACKAGING PICTURES KINDLY LOANED FROM THE ROBERT OPIE COLLECTION AT THE MUSEUM OF ADVERTISING AND PACKAGING, GLOUCESTERSHIRE - TEL: 0452 302309



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Eastman Chemical Company
The Chemistry of New Ideas

The key to child resistant closures

Three prototype versions of a child resistant closure, which is said to offer an easier version for consumers to open as well as providing tamper evidence, are now available from Just Once (Closures) Ltd.

Easy opening is offered due to the alternative method

of opening incorporated, says the company. Gone is the need to grip, push and turn, as a special key is used instead. This key is inserted into a receiving recess in the inner cap which allows the engaging threads to be turned without depressing the outer part of the closure.

Samples of these prototypes, which fit three neck finishes - 28mm R3, 28mm R6 and 24mm R3 - are available from the company (which is based at Harleem House, Ogilvie Road, High Wycombe, Bucks HP12 3DS - tel: 0494 461111, fax: 461194).

Using different wads, the cap can be used for dispensing tablets and liquid mixtures as well as a range of household and garden products.

For further information K7 Call for details 0839 772268

Brochure presents sealing alternatives

Easy-Open Packaging from DuPont is a new brochure presenting the company's product range for the manufacture of packs which provide the right balance between proper sealing and a seal that is designed to be peeled off easily by the consumer.

According to DuPont, it has the most comprehensive offering of peelable sealing alternatives available. Polymer solutions which allow easy open formats to be adopted are available for all packaging designs, from portion packs to

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Call on 0839 772268 or enquiry number K7-421

OPENABILITY NEWS

Screw improvements

Improved opening, pouring, rescaling and storage of liquids are said to be provided by a new generation of screw-cap cartons from Elopak Ltd.

Ideal for fruit juices, mineral water, soups, sauces, milk and drinking yogurts, the screw-cap cartons incorporate a specially designed device which highlights any evidence of tampering.

The screw-cap is very easy to open - especially useful for the very young and very old - and its complete resealability eliminates leakage in the fridge, whether the carton is standing up or on its side, says the company (Rutherford Close, Meadoway, Stevenage, Herts SG1 2PR - tel: 0438 746746, fax: 741324).

A range of standard family sized cartons are offered by the

company - from 2 litres down to 250ml - and a new brochure is now available on the screw cap versions.

For further information K7 Call for details 0839 772268



Elopak screw-cap cartons: easy to open, pour from end reseal

OPENABILITY NEWS

Tapes pull apart for easy opening bags

An easy open system for handled or plain sewn bags for products such as pet food, cat litter and charcoal, has been developed by Fishbein.

In operation, two strips of Twotape are sewn along the bag to form the closure. To open the bag, these tapes are simply pulled apart and the thread is removed to give a full opening. If a pour spout is required, this thread can be just partially opened.

"Heavy duty kraft paper"

The system and the Twotape are both available from Fishbein (Unit E4, Northway Trading Estate, Tewkesbury, Gloucs GL20 8JH - tel: 0684 298182, fax: 292678). The Twotape is a 10mm wide, heavy duty kraft paper and is available in a variety of colours to complement the artwork on the bag itself, according to the company.

For further information K7 Call for details 0839 772268

The system gets over



Twotape strips form the closure

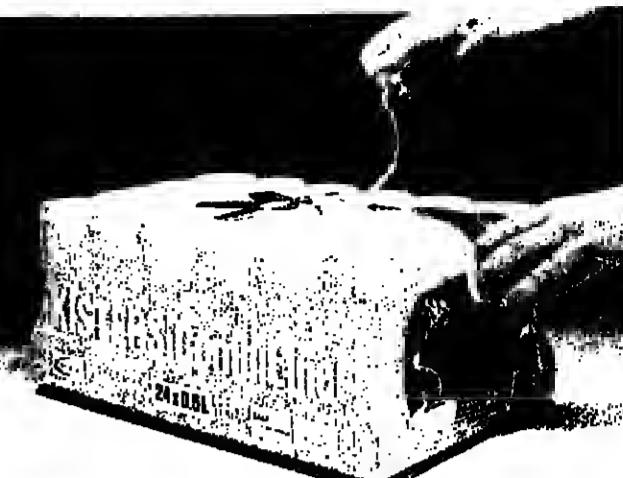
Thread avoids knife damage

A simple method for opening shrinkwrapped packs for both the retailer and the consumer, has been developed by Kisters Ltd.

A tear thread can now be integrated into the shrinkfilm by means of a separate machine before the shrinkwrapping operation, which is said by the company to allow for quick and effortless opening.

This subsequent wrapping process can take place on a Kisters ShrinkPacker and the tear thread can be either transparent or coloured. This Easy-Open system has been designed for either transit packs or printed film multipacks. For example, on 24-can packs of lager cans or on 6 packs of 33cl beverage cans.

The system gets over



A tear thread is integrated into the film before shrinkwrapping

problems of using a knife to open packs which brings danger of cuts or of damaging the products, says the company (37 Walkers Road, North Moors Moat, Redditch, Worcs B98 9HD - tel: 0527 595795, fax: 595727).

For further information K7 Call for details 0839 772268

Plastics gadget releases vacuum on glass jars

What is described as a simple, yet revolutionary gadget for opening glass jars was handed out to all delegates at the IOP's Easy Open symposium.

Called JarKey, the plastics gadget was designed and launched in Denmark last year, where sales have already exceeded one in five houses.

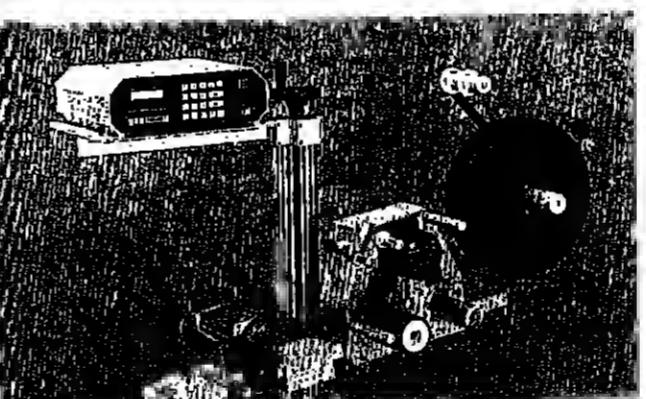
holds. It works by releasing the vacuum which keeps jars sealed, and its effectiveness has been tested with cap manufacturer, CarnaudMetalbox Closures. Distributed by Sterling Marketing, JarKeys are now available in selected supermarkets, says Carnaud-Metalbox Closures.



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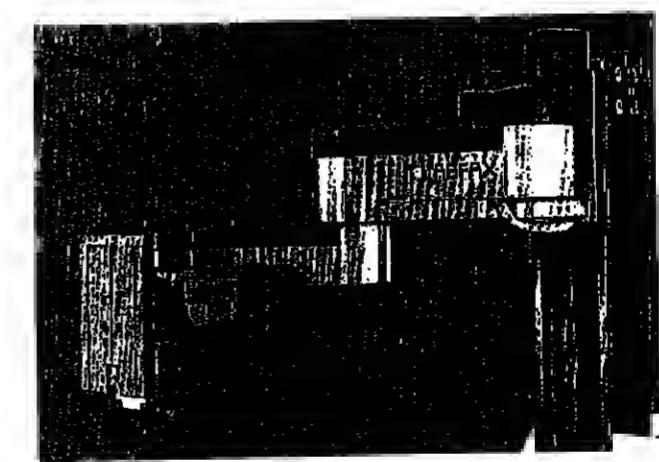


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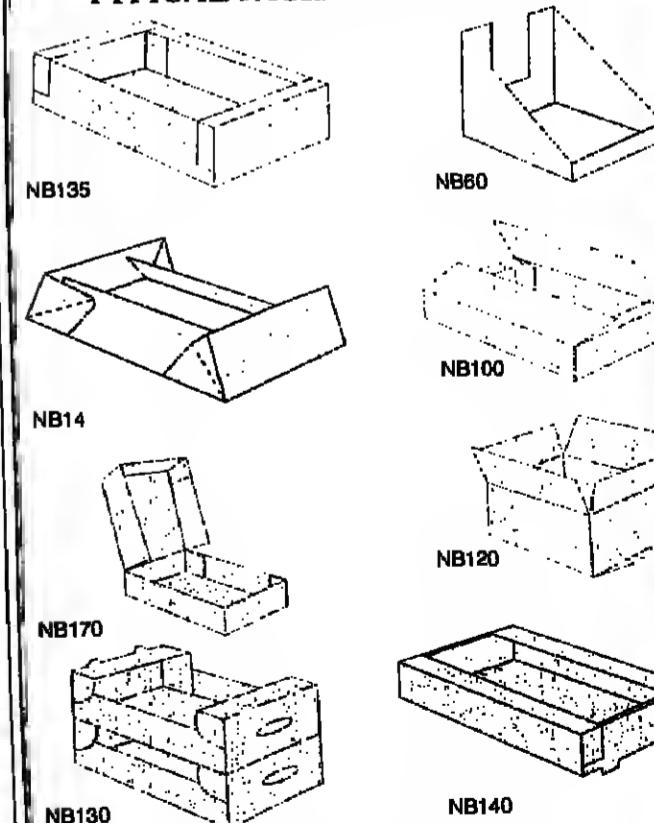
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Malaysia. BCI Overseas Fairs Division,
George House, George Road, Birmingham
B15 1PG - tel: 021-455 9600

7-10 July
Mould and Die
International exhibition, Hong Kong
Business and Industrial Trade Fairs,
10/F First Pacific Bank Center, 51
Gloucester Road, Wan Chai, Hong Kong -
tel: +852 865 2633

20-23 July
ICT
International confectionery exhibition for
finished products, processing and
packaging machinery, Tokyo, Japan.
Overseas Exhibition Services, 11
Manchester Square, London W1M 5AB -
tel: 071-486 1951

9-12 August
Packaging and food processing
Exhibition, Jakarta, Indonesia. Top
Republik Co, 2102 Fu Jui Commercial
Centre, 27 Hiu Street, Hong Kong -
tel: +852 851 8603

18-21 August
Foodtech
International packaging and food
processing exhibition, Kuala Lumpur,
Malaysia. ADG Exhibitions, 1 Woodside
Road, Amersham, Bucks HP6 8AA - tel:
0494 22406

30-3 August/September
BICRA
Trade fair for the printing industry,
Leipzig, Germany. Inotech Overseas Fairs
Ltd, P O Box 142, Rochester, Kent ME3
7NR - tel: 0474 824092

31-3 August/September
AseFood
International exhibition of food
processing, packaging and handling
machinery, equipment and technology,
Manila, Philippines. Trade Information
Marketing and Exhibitions, S-324
Secretariat Building, PICC, CCP
Complex, Roxas Boulevard, Pasay City,
Manila, Philippines - tel: +63 82 0309

5-8 September
Packukraan '94
International trade exhibition, Kiev,
Messe- und Ausstellungsgesellschaft,
Ost-Handel Consulting GmbH, GS1
Hamburg, Lennestrasse 10, D-22299 -
tel: 010 49 040 48 75 90-1, fax: 010

49 040 48 75 99
21-22 September
EASME '94
European adhesives and sealants
manufacturing exhibition, Bordeaux,
France. Jane Malcolm-Coe, FMJ
International Publications Ltd,
Queensway House, 2 Queenway,
Redhill, Surrey RH1 1OS - tel: 0737
768811, fax: 761685

22-25 September
Packaging Focus '94

Packaging exhibition and conference, on
board P&O's Sea Princess, Richmond

7-10 September
Paperbox World
Folding carton and rigid box exhibition,
New Orleans. National Blower
Exposition, Fort Lee Executive Park,
One Executive Drive, Fort Lee, New
Jersey 07024, USA - tel 010 1 800 629
3976

13-15 September
LabelExpo USA '94
Exhibition, Chicago, LaSalle Exhibitions
Ltd, 131 Southlands Road, Bromley,
Kent BR2 9OT - tel: 081-313 3535

15-20 September
CIP
Packaging trade fair, Beijing. NOWEA
International, Ms Ute Windhausen,
Postfach 10 10 06, 40001 Düsseldorf -
tel: +49 211/4560 743

19-20 September
Tokyo Pack

Exhibition of packaging materials and
machinery, food processing machinery
and equipment, Tokyo, Japan. Japan
Packaging Institute, 7F Kashikichi
Ningyo-cho Oldg, 3-10-1, Ningyo-cho
Nihonbashi Chuo-ku, Tokyo 103, Japan -
tel: +81 3 3249 830

20 September
Introduction to labels and
labeling technology

Two separate teach-ins, The Grand Hotel
Krasnopol'sky, Amsterdam Clare Brophy,
event coordinator, Co-wise Management
and Training Services, 131 Southlands
Road, Bromley, Kent BR2 9OT - tel: 081-
313 3713

20-23 September
Converlex '94

Trade show dedicated to the paper,
board, film, plastics and foil converting
Industries, NEC, Birmingham. Jane
Harris, Marketing Manager, Reed
Exhibition Companies (UK), Orme House,
25 The Quadrant, Richmond, Surrey
TW9 1OL - tel: 081-948 9800

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EASME '94
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28-30 September
2nd International Transil
Packaging conference and
exhibition

Conference and exhibition, Orlando,
Florida. Moina Ervin, Pira International -
tel: 0372 376161, fax: 0372 377526

28-1 September/October 1
FeckPack '94

Trade exhibition for packaging, labelling
and storage technology, Nuremberg.
Nürnberg Messe GmbH - tel: 010 49
091/8606-0

29-1 September/October 4
Toropak

Packaging exhibition, Poznan, Poland.

Overseas Trade Show Agencies, 11

D I A R Y
Event, London House, 243-253 Lower
Mortlake Road, Richmond TW9 2LS -
tel: 081-332 2422

22-26 September
Printpack & ProcessFood '94
International graphic arts and packaging
exhibition, Thessaloniki, Greece. ICO Int
Tsimikou, PO Box 19025, Athens 117
10, Greece - tel: +30 901 0018

3-7 October
Europlast '94

International plastics and rubber
exhibition, Paris-Nord Exhibition Centre,
Michèle Jackson or Catherine Chitcock,
Promotions - tel: 071-221 3860, fax:
792 3525

4-5 October
PPMA Show

Machinery exhibition, NEC, Birmingham.
PPMA Ltd, Progress House, 404
Brighton Road, South Croydon, Surrey
CR2 6AN - tel: 081-681 8226

27-29 September
Materials, handling, storage and
packaging

Exhibition, Oslo, Norway. Norges
Varemesse, Bok 130 Skøyen, Oslo
02122, Norway - tel: +47 2249100

27-30 September
SIBIzez

Packaging exhibition, Novosibirsk,
Siberia. Overseas Trade Show Agencies,
event coordinator, Co-wise Management
and Training Services, 131 Southlands
Road, Bromley, Kent BR2 9OT - tel: 081-
313 3713

28-30 September
AFERA Congress

Congress of the European Self Adhesive
Tape Manufacturers, Annecy, France.
AFERA Secretariat, 60 rue Aubé, F-
94408 Vitry Sur Seine Cedex, France -
fax: 01 33 41 21 50

28-30 September
Interlabel/Interpack/Interprint

International exhibition for the food
processing and packaging industries,
Jakarta, Indonesia. Reed Exhibitions -
tel: 081-940 3777

14-18 October
Interlabel Shenzhen

International exhibition for food
processing and packaging equipment,
Shanghai, China. Shanghai International
Trade Information, B17-837 Dong Da
Ming Road, Shanghai, China - tel: +86
21 546 3810

19-20 October
Pakex & Process Ireland

Exhibition, the National Exhibition
Centre, Birmingham. Richard Lead, Reed
Exhibition Companies (UK), Orme House,
25 The Quadrant, Richmond, Surrey
TW9 1OL - tel: 081-948 9800

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and storage technology, Nuremberg.
Nürnberg Messe GmbH - tel: 010 49
091/8606-0

29-1 September/October 4
Toropak

Packaging exhibition, Poznan, Poland.
Overseas Trade Show Agencies, 11

11-15 October
Printexpo, Jenkennburg, South Africa
International graphic arts and packaging
exhibition, Thessaloniki, Greece. ICO Int
Tsimikou, PO Box 19025, Athens 117
10, Greece - tel: +30 901 0018

1-5 October
Typepack

International graphic arts and packaging
exhibition, Cairo International
Convention Center, Egypt. The Arab
Communication Group - tel: +20 2 348
4351

22-26 September
The PackPrint

Packaging and printing exhibition and
conference, Bangkok, Thailand. Reed
Trade Co Ltd - tel: 010 662 260 7103
8, fax: 260 7109

27-29 September
PPMA Show

Machinery exhibition, NEC, Birmingham.
PPMA Ltd, Progress House, 404
Brighton Road, South Croydon, Surrey
CR2 6AN - tel: 081-681 8226

1-3 November
MEBA

Trade fair for metal processing, Leipzig,
Germany. Inotech Overseas Fairs Ltd, 1st
Box 42, Rochester, Kent ME3 7NB - tel:
0474 824092

24-28 October
GIE

International exhibition of machinery and
process technology for the food and
beverage industries, Paris, France - tel:
+33 1 4288 0119

1-3 November
Seen-Tech

Exhibition, Olympia, ExCel London
International Events Ltd, ExCeL House,
840 Brighton Road, Purley, Surrey CR8 2BH
- tel: 081-660 8008, fax: 081-660 6243

12-15 October
PPP China

International trade fair for packaging,
printing and paper, Tianjin, China.
Tianjin World Economy Trade and
Exhibition Centre, 32 You Yi Road, Hexi
District, Tianjin 300061, China - tel: +86
22 342 222

14-19 October
Interlabel Shenzhen

International exhibition for food
processing and packaging equipment,
Shanghai, China. Shanghai International
Trade Information, B17-837 Dong Da
Ming Road, Shanghai, China - tel: +86
21 546 3810

14-19 October
Emballage

Exhibition, Olympia, ExCeL London
International Events Ltd, ExCeL House,
840 Brighton Road, Purley, Surrey CR8 2BH
- tel: 081-660 8008

3-7 April 1995
Pakex

Exhibition, Olympia, ExCeL London
International Events Ltd, ExCeL House,
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14-19 November 1994
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Trigger-pump spray bottle by BP Chemicals: easily customised

bottle neck line, the shield permits inclusion of a moulded-in customer logo at minimal cost, says the company (Abbey Meadows, Abbey Park Road, Leicester LE4 5AE - tel: 0533 531 291, fax: 530 388).

According to BP, the ergonomically designed bottles are comfortable to hold and use and the containers' generous base dimensions give good stability. The bottles are designed for effective and efficient manufacturing and filling and the pump assembly is fitted with an anti-back off thread. A key feature of the 500ml and 750ml bottles is a die-moulded 'customer branding shield'. Located just below the

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Belgium quibbles over EU directive

The European Union's (EU) Packaging Directive grinds slowly on with adoption expected for the end of June or beginning of July. Further delay has been caused by Belgian intransigence, as the country struggles to overcome problems with the ambiguous wording of 'economic instruments' in Article 15.

At the Council of Ministers meeting in June, UK and Spanish opposition to the wording of Article 15 on economic instruments was swiftly resolved (see *PN* June).

In order to prevent the directive going to conciliation,

Recycling logo on closures

A 'recyclable steel' logo has been included into the design of CPC's metal closures on its Real Mayonnaise and Light Mayonnaise products.

CPC is the first UK food manufacturer to incorporate the logo on closures supplied



which may result in MEPs reintroducing targets, it has been sent back to the Council of Permanent Representatives to iron out what is hoped is the last problem. Failure to resolve the Belgian position would result in the conciliation process, something the Ministers aim to avert at all costs.

As Austria and France both cope with adapted versions of the German Dual System, Perchards has written a report on the situation to date in Germany and what benefits and drawbacks are apparent from the German Packaging Ordinance.

German Ordinance: the cost

The average cost to a four person German household may have been more than DM1300 (£540) in 1993 rising to DM1600 (£660) this year, as a result of the DSD, says Perchards consultants. So far the promised savings have not materialised and levies from the DSD on fillers and packers have escalated.

David Perchard tells *Packaging News*.

The Department of Environment along with trade associations tell *PN* that they want the directive to be adopted as quickly as possible.

However, some MEPs seem confident that there has been a shift at Council level with the Belgians prepared to side with the Germans and Danes. They have never accepted the directive as it stands (see *PN* January).

The Ordinance has met the German Government's politi-

cal objective of bringing about a complete transformation in trade and industry's attitude to packaging waste management as packaging legislation is springing up all over Europe either inspired by the German example or as a defensive measure against it, David Perchard tells *Packaging News*.

.....



Pointing out that metal caps can be recycled: Hellmann's Real Mayonnaise capped by CarnaudMetalbox Closures Europe

For further information K7 Call for details 0839 772268

Recycling plant for post consumer plastics waste

Linpac Plastics International has opened a second recycling plant for post consumer plastics waste at Allerton Bywater in West Yorkshire.

Only separating and washing facilities will remain at the Bollington plant, where all rigid plastics waste will be sent for washing and separation prior to reprocessing at Allerton Bywater.

There have been some winners. The Ordinance has created a series of managed markets dominated by particular companies. German papermakers have improved their competitiveness and German beverage producers are also benefiting. Other groups such as the stronger waste management companies have also done very well.

Perchards concludes that the main lessons from the German experience are that recycling should be part of a range of waste reduction measures, but that companies should be free to choose which put the emphasis.

Most of the problems stem from the fact that the German law is far too prescriptive. In addition, the law's refusal to allow incineration as a way of disposing of surpluses which can not find an end use market has created havoc.

Since the secondary raw materials market is an international one, no single jurisdiction can or should control it, so the pace at which collection schemes are developed should have a regard for supply and demand on a much broader scale.

Although until now Linpac has only been breaking even at Bollington, the decision to expand was one of economies of scale, Alan Davey recycling projects manager at Linpac (Avon Business Park, Knottingley, West Yorkshire WS11 0BS - tel: 0977 671111; fax: 670670) tells *Packaging News*.

"The business does not stand alone at present but we expect to make a profit by the second half of this year." However, Mr Davey calls for more support from industry and a real commitment to recycling right along the packaging chain.

At present, the recycled product is sold at a premium, but with increasing volumes Linpac expects this to disappear. "People seem to expect that there should be reprocessing plants all over the country yet we have done costings and it is more economic to transport all the waste to one plant."

Any further expansion will depend on the enforcement of environmental legislation and on the financial stability of the market.

This may well not hold up with the proposed opening of Plysu's reprocessing facility later in the year, explains Mr Davey.

Two extrusion lines have

been installed at the Allerton Bywater site. One at a cost of £250,000 and the other together with granulators, ballistic classification and drying equipment from Bollington.

They come in a variety of sizes, 2x2 litre, 4x1 and 3x1 litres and are filled by the chemical manufacturer. Also under development is a larger special returns box so that once the chemicals have been used, the inner bag is placed in the returns box containing an inner liner and the box can

now be recycled.

In the case of Swan's customer, the return box is collected by the customer and disposed of safely. The chemical end user has to worry about arranging disposal of the packaging.

Although a number of companies recondition drums, more often plastic or steel drum containers when empty are crushed and landfilled and the onus is on the end user to dispose of the container.

The packaging has been

designed for a West Midlands' chemical manufacturer and operates on two levels. The chemicals are stored in a strong inner bag with a dispenser housed in a rigid heavy duty recycled card outer box.

"There is a saving over

other forms of packaging, and

there is also the ability to

release the chemicals through

the tap and turn it off," John

Smith, sales and marketing director at Swan's tells *PN*.

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Smith, sales and marketing director at Swan's tells *PN*.

The packaging has been

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Scanpack shows green bias

Scanpack 94, Scandinavia's packaging trade fair, will take place later this year, at the Swedish Exhibition Centre in Gothenburg, 11-15 October.

So far, around 350 exhibitors have confirmed their participation and will occupy more than 18,000sq m of space.

According to organiser Svenska Mässan, the international character of the fair is illustrated by the fact that more than 34 per cent of exhibitors are from outside Sweden. Around 10 per cent will be from outside Scandinavia.

A one-day conference

looking at all aspects of the corrugated board industry will take place the day before the show opens and it is hoped that a Swedish Minister will present the latest news on the Ecocycle legislation (see Packaging News - June 94).

Welcome to SCANPACK 94 11-15 October 1994

Taking place during the five day show will be the presentation of the Scanstar competition winners, the Scandinavian equivalent of our Starpack Awards (see page 28). The win-

ning packs will be on display throughout the exhibition.

According to the organiser, many developments at the show will reflect the increasing pressures on the entire European packaging industry to reduce waste and accept the producer responsibility principle. Here, we highlight just some of the many products that will be on show.

For further information, contact the organiser, Svenska Mässan (The Swedish Exhibition & Congress Centre Box 5222, 402 24 Göteborg, Sweden - tel: +031 109 100, fax: 031 160 330).

For further information K7 Call for details 0839 772288

Transparent and flexible material for fresh foods

A polypropylene-based, transparent flexible packaging material, which can be drawn for vacuum or modified atmosphere packs, and so used with fresh food products such as meat, fish and cheese, will be on the Åkerlund & Rausing stand.

Called Ecoflex, the material has taken two years to develop and has had its first application in the Swedish market. The food company Scan is using it for its range of cold meat products.

According to Å&R, the transparent material has excellent barrier properties as well as being used as the barrier layer.

Less strain

"The material combination with pp as the base polymer is part of our drive to use components that put as little strain as possible on the environment," says Christina Olsson, product manager at Å&R (Box 22, S221 00 Lund, Sweden - tel: +46 46 18 34 30). "Our new concept will be marketed in four different combinations in varying thicknesses of 100-250 microns.

Ecoflex copes with deep drawing under the same conditions as traditional paper materials," she continues, "which means the forming characteristics are very good."

Apart from its unique functions, we have also succeeded in obtaining a material that is cost effective for both us and for our customers," she concludes.

This, according to the company (tel: +75 57 24 22), makes the material ideal for a wide range of applications where a



PolyPaper: paper qualities combined with the strength of plastics

Paper bag lookalike

During the show, Schur Plastic a/s will highlight its latest development - Schur PolyPaper - as well as demonstrate the improvements made to the SchurUp bag.

A combination of materials and a special production process has been employed for the pe-based PolyPaper, which are said to provide the texture, look and feel qualities of paper combined with the strength of plastics.

This, according to the company (tel: +75 57 24 22), makes the material ideal for a wide range of applications where a

paper-like look is an advantage but where paper would not meet the physical properties required. For example, in a damp environment.

Improved stability has now been achieved in the latest SchurUp bag option with the first user being AXA of Denmark, which switched from a form, fill seal solution. AXA's Swedish parent company has also adopted this bag, but in this case, by replacing a big bag-in-box option. The SchurUp bag runs on the Joker packing system which is available from Schur Engineering a/s.

Lohja, Finland - tel: +358 1324201, fax: +358 1224233.

Lohja's main raw material is chemical pulp bleached without elemental chlorine, but totally chlorine-free papers are also part of the mill's product range. For paper coating, the company uses mainly pc and pp.

For further information K7 Call for details 0839 772288

The use of softwood chemical pulp by Lohja Paperi ensures a adequate strength, even with such very thin papers

Compact custom built milk carton packer

Norwegian company Nor-Reg will be demonstrating its capabilities in the custom built machinery area at the show, with one of the latest examples being a multipack machine for milk cartons. The multipack concept uses a minimum amount of material and the compact machine to apply this can be fitted onto existing production lines. It can be adjusted to run quarter, half and one litre milk cartons.

Ultra thin papers and laminates will suit industrial applications

Ultra thin food packaging papers, extrusion coated papers and laminates will be on show on Finnish paper makers stand, Lohja Paperi Oy.

As well as manufacturing lightweight papers for food and other consumer goods, the



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Sacks and films for retail

A large range of expanded polystyrene packaging is available from Norwegian manufacturer, Jackson as, much of which will be on display.

Moulded-formed and custom-cut eps packs can be produced, says the company (Postboks 44, Sørkilen 3, N-1620 Groruddalen, Norway - tel: +47 6932155, fax: +47 69328749). For customers in Scandinavia, the company takes back used eps.

Eps waste is collected and returned, and then melted down to regranulate. A large percentage of the resulting material is then mixed with virgin granulate and used in the manufacture of the company's extruded insulation boards.

For further information K7 Call for details 0839 772288



Rosenlew's plastic sacks can be printed in up to six colours

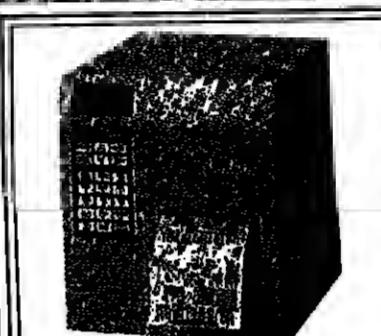
Plastics sacks, intermediate bulk containers, plastics and paper bags for retail use, as well as packaging films, will be displayed by Finnish company Rosenlew Ltd.

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The new single site will combine production, sales and service with the specialist converting activities of their subsidiary TAVAK. The move avoids the limitations of operating a factory in the centre of London where this long established company has been based for many years.

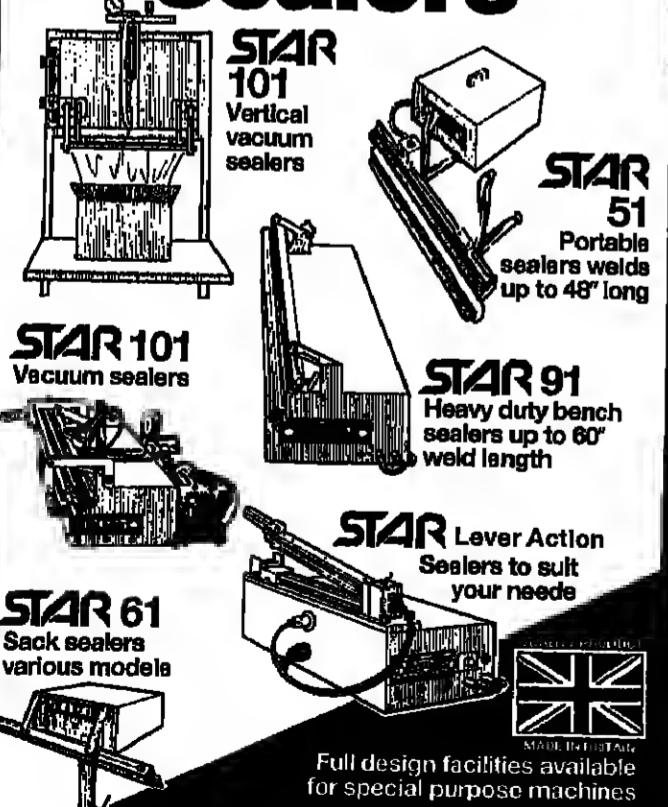


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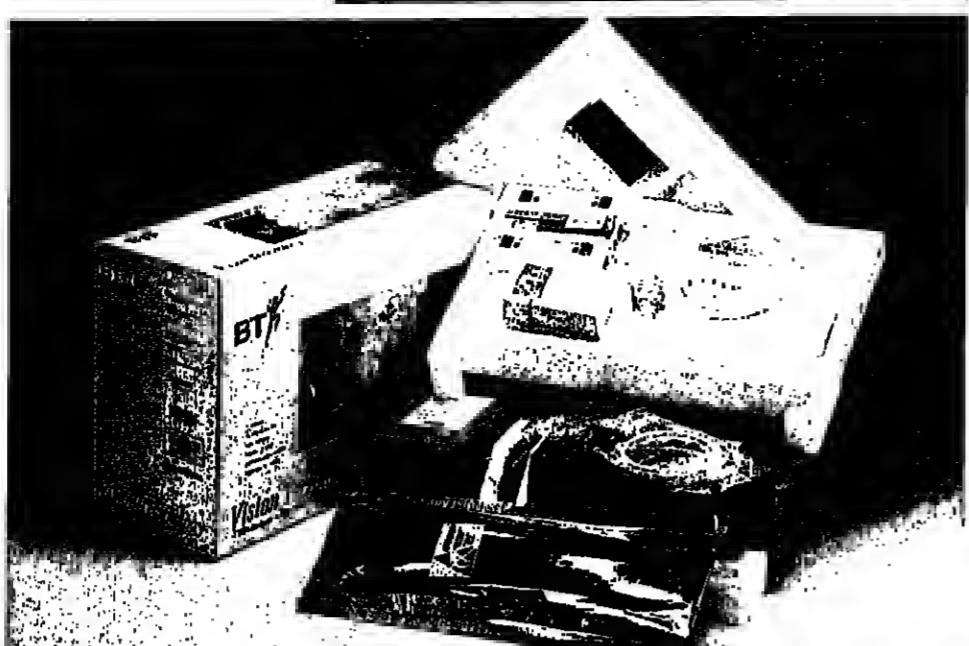
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STARPACK AWARDS



MY Trondex took gold in the consumer and the transit sections with its pack for a BT video telephone

Flexible protection at half the former size

Multiple role and reduced volume were the attributes rewarded in the single gold Starpack award this year from the Institute of Packaging.

MY Trondex (0604 752355) took the gold in both the consumer and transit sections of the competition with its pack designed for a British Telecom video telephone. Perfect protection was only half of the pack's appeal, according to chairman of the transit section judging panel Dennis Goodey. "It is also half the size of the pack it replaced and extremely attractive at point of sale," he adds.

On a single pallet load, 72 of the packs can now be stacked instead of 25 as before. The materials chosen - eps, films and corrugated - will also withstand vibration and other features of normal transit and handling. The single piece litho laminated base is designed to contain 13 components.

"The standard of award entries has been noticeably higher this year, particularly in technical innovation," comments David Qua of Mars, chairman of the consumer panel of judges. Apart from the one gold, there were 23 silver, 35 bronze and six technical innovation awards out of a total of 199 entries.

Steps forward in plastics

design were recognised in the citation for Continental Pet UK's blowmoulded bottle with integral handle for Kia Ora. It is the first UK application of the technology which places a handle, which can match the cap, in the mould by means of robot before the bottle is blown.

Production from pet granule to finished container takes place in a single machine. The pet bottle also won a technical innovation award for the company (0536 401424).

The same combination of silver and technical innovation awards went to CarnaudMetalbox Foodcan (0905 762323) for its now well known Quantum Can, in a design for JA Sharwood. The lightweight can is litho printed and offers optimum shelf impact, say the judges, as well as minimising use of energy and metal. Easy opening is assured with the addition of the Eole full aperture can end.

Single material solutions, major advantage of being able to run on existing blister packing equipment.

Another board winner of a silver award on the consumer side was Presentation Products (0241 878441), with its Alloway Legend whisky gift carton. Resembling an old book, the pack imitates a book spine with its metal and paper hinge and does not use con-

tinental locking devices. Easy open features were key to RPC Containers (013 682298) winning a silver award with its "snacking on the move" pet pots for the Fife Foods Group. The judges made particular mention of the peelable induction seal and small flout which allows the prising off of the lid. A clear sleeve gives especially high quality graphics and gloss.

Field Packaging (024 573501) produced an Easter pack for Cadbury Ltd which won a silver award. It includes clampties of vacuum forming with a retaining board lid. Rigidity in the pack, derived from its pre-erection and hot together format, was particularly admired by the judging panel.

Technical innovation and STD (Society of Typographic Designers) awards, as well as bronze, went to LPF Verpakkingen of the Netherlands (010 31 581 32121) for a pouch and beer bottle combination. Produced for Bass Brewers, the pack uses a metallised polyethylene patch which encloses the bottle can be easily opened to leave a label and clear glass bottle.

There was another technical innovation award involving easy opening on flexible packaging for Sidlaw Packaging Coltds (0372 753200). The company applied the Fancy Cut process during the conversion of formats for Kellogg's bags, also winning a bronze award for the result. No tear tapes are necessary, and the

feature is seen to meet a clear consumer need.

Six colour flexo printing on a David S Smith Corrugated Launceston multi-pak for Safeway won the company the EFTA special award. An inner fitment allows for bottles of differing heights to be carried together, says the company (0566 772303).

For metal packaging, the Glenmorangie decorated tube won Peter Windett & Associates (071-221 0301) the MIMA special award. The precise register was described as a tremendous technical achievement. ManuPlastics (081-542 3421) won the IOM special award, with design work by Link Design, for a family of

innovative pouch and beer bottle combination by LPF Verpakkingen

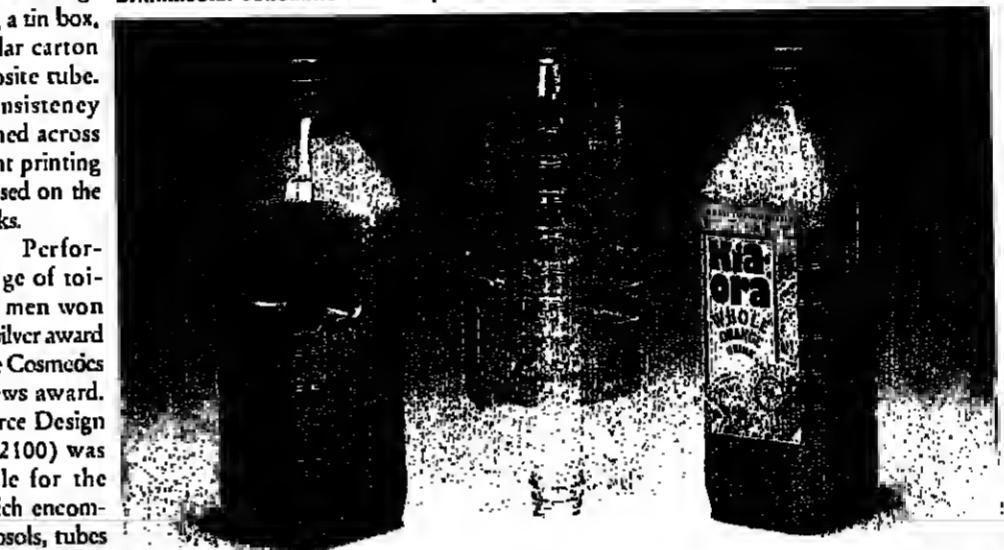
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STARPACKS



Silver awards for David S Smith Packaging: Airlines Countryside Collection pack, 8 x 1 litre Drinkmaster concentrate transit pack and Merchant Manufacturing greaseproof paper pack



Continental Pet UK's blowmoulded bottle with integral handle produced for Kia Ora: the handle, which can match the cap, is placed in the mould before the bottle is blown



The Boots Performance range of toiletries for men, designed by Lippe Pearce, won both a silver award and the Cosmetics World News award; Offset and screen printing were used



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INDUSTRIES

**CORBY**

now packaged in plastics bottles, and 60% is in packs over 500g in size," explains HP Senior Product Manager Katy Lockwood. "HP Fruity is a

unique product in its own right with a distinctive tangy flavour and clearly including a plastic pack in the range will help to widen its appeal still further, particularly among tomato ketchup users."

RPC Containers Corby's custom-moulded design for the new bottle was to a specific brief from HP.

"We required an attractive, eye-catching pack that retained all the characteristics and qualities of the HP Brand and the famous original HP bottle," says Katy Lockwood.

"Using RPC's In-house design team with its CAD facility meant we could easily make minute changes and modifications to achieve exactly what we were looking for."

The new Barbecue Sauce pack marks HP's further development of a rapidly-expanding market in which it is

"Over 40% of tomato ketchup is

RETAILERS' FLEXIBILITY CONTRIBUTING TO INNOVATING DESIGN

RPC Containers Corby is expanding its thermoforming operations with the introduction of a new round 101mm diameter polypropylene pot, the Alpha range, for prepared salads and coleslaws. In particular, a high standard of material finish and quality printing ensure good overall decoration to achieve maximum on-shelf impact.

RPC Corby has already secured a number of major orders for the new pot including the launch of leading

**BLACKBURN****PET JAR SIGNALS CHANGE IN CONVENTION**

RPC Containers Blackburn is supplying a 4.3 litre amber tinted PET jar for Makro's range of own-brand instant coffees for the catering industry.

Makro's move into PET represents a major departure from the more conventional lever lids traditionally used in this market.

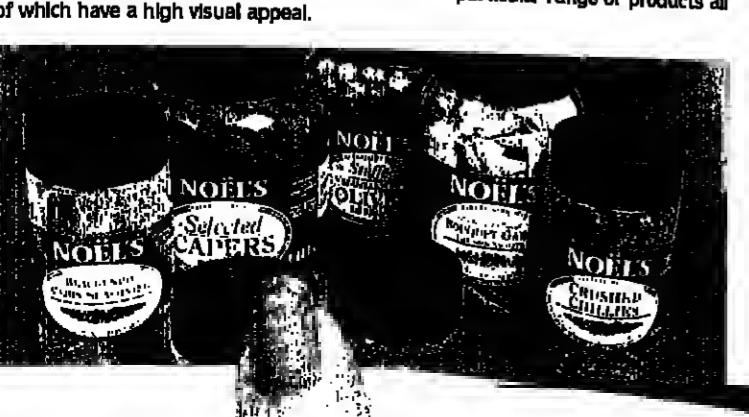
"We are very market-focused and develop products both to meet and anticipate changing customer requirements," explains Barry Wilkes of Makro. "With the new PET jars, we have created an attractive pack which, equally important, is also practical and convenient to use."

"We are very pleased with the new packs. In particular, they are being produced to a very high standard, commensurate with Makro's own standing in the marketplace."

SOLE SUPPLY DEAL GIVES BLACKBURN CLEAR ADVANTAGE

RPC Containers Blackburn has been appointed sole supplier of PET jars for leading specialty food company L. Noel & Sons Ltd, to package the company's catering range of herbs, spices and specialty food ingredients. Four sizes of jars are being supplied - 485ml, 905ml, 1850ml and 2.27 litre.

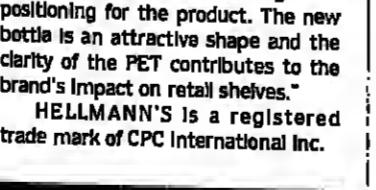
Noel's manufactures a comprehensive selection of specialty foods for the catering trade. Packaging is very important to the company both in terms of safety in a busy catering environment and for its particular range of products all of which have a high visual appeal.



Key to the 'squeezy' nature of the bottle is its oval shape. "PET in itself is a strong robust material and not particularly easy to squeeze so the design of the bottle is critical," explains Philip Jones, RPC Blackburn's Sales and Marketing Manager. "The oval shape provides a wide middle section where pressure can be most effectively applied to squeeze the pack."

The new bottle is produced in mono-layer PET, offering excellent barrier properties to maintain product shelf-life.

For CPC, the squeezy PET bottle combines the traditional benefits of PET - sparkling clarity, lightness in weight and resistance to shattering, the last two particularly

**TOILETRIES' HOTTEST HONG KONG SUCCESS**

Leading toiletries manufacturer Bodicare Toiletries Ltd has selected RPC Rushden's stock 1 litre and 500ml toiletries bottles to package a range of products for leading Hong Kong chemist chain Watsons.

The RPC bottles have attractive curved lines for maximum on-shelf impact. In addition, OPVC offers excellent sparkle and clarity, essential to complement the premium image of packaged products. There is a

wide area for labels. The material also offers practical advantages such as being safe and easy to handle and providing good strength at light weights both on shelf and in the home.

"The bottles are attractive and practical and provide the ideal packaging for our products," comments Ron Metheringham, Joint Managing Director, Bodicare Toiletries.

**OAKHAM**

RPC Containers Oakham is supplying 2.5 and 5 litre polypropylene paint cans containing 25% recycled plastics to ICI Paints for its Dulux Natural Hints range.

"We felt the size was more appropriate for the needs of the cash and carry market," explains Benckiser's Assistant Operations Manager Don Brooks.

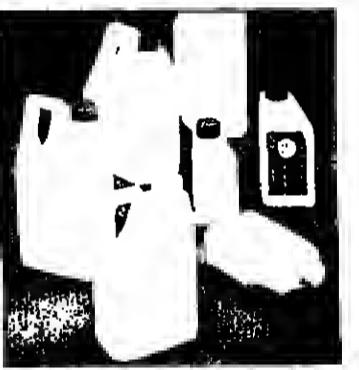
"In addition, we wanted to offer customers the convenience of a refillable pack."

"The RPC can is ideal for our purposes being lightweight and easy to handle and, with no denting or rusting, particularly appropriate for the long term storage role required of it. We have been delighted with the quality of container supplied by the company."

**REFRESHED PAINT CONTAINERS FOR THE CASH AND CARRY MARKET**

Relaunched Smooth and Textured Masonry Paints with an improved finish from leading supplier Blue Hawk Limited feature brand new 6 colour designs on 5 litre paintcans supplied and printed by RPC Containers Oakham.

"This is a major relaunch for Blue Hawk and we needed eye-catching and attractive new designs to



communicate the changes clearly and effectively to our customers," explains Blue Hawk Group Product Manager, Stuart White.

"We have always been delighted

with the quality of containers

supplied by RPC. In particular, we are

very pleased with the excellent print

finish achieved on the containers for

our new range."

RAUNDS**IMPACT CONTAINER GROWTH**

RPC Containers Raunds is further extending its Impact standard container range manufactured in HDPE with the introduction of 0.5 and 1 litre non-handled sizes.

Like the rest of the Impact range, the new non-handled packs are designed to bridge the gap between standard and custom-moulded containers and provide an enhanced image for the products they package.

"The new Impact containers are a natural extension to our range, meeting demand from customers in many different industries for small, convenient, practical packs which still maintain maximum on-shelf appeal," explains RPC Raunds' Sales and Marketing Manager, David Baker.

RPC Raunds says interest in the new packs has come from diverse markets such as automotive, DIY, household chemicals and toiletries.

**RUSHDEN****NEW SHAPE REINFORCES CONTEMPORARY IMAGE**

RPC Containers Rushden is supplying a new custom-moulded one litre PVC bottle for Robinsons Whole Fruits and Special Ranges.

The striking new bottle presents a more contemporary image of Robinsons while making more efficient use of space on shelf and in customer warehouses.

The main change is in bottle shape - the new design is narrower in diameter, which makes it easier for children to pour. The new pack

also takes up significantly less space on shelf.

Other changes include a new 'lemon squeezer' feature at the top of the bottle which emphasises the Robinsons brand's fruit refreshment proposition. However the new bottle retains the 'roundness' seen as a core brand attribute by consumers. In research, the bottle was preferred by 77 per cent of consumers and, while modern, does not alienate Robinson's sizeable consumer base.

RPC Containers Rushden is supplying a unique twin aperture combination has been used in a large container.

Special heavy duty HMPE is used

for this application because of the aggressive nature of the product being packed and the containers have received UN Packing Group II Certification.

"These containers form an important part of our new development," comments David Morton, Product Manager, Ellis & Everard. "As such they need to be practical and user-friendly and project a quality image. We have been delighted with RPC's technical input and the container which has resulted. In particular the unique anti-glug feature is a major boon for the packaging of this type of product."

Tate & Lyle has invested heavily in this project and has developed a range of products which we believe will compete very successfully in this sector," comments Bob Laird, Marketing Manager for Tate & Lyle.

In this project and has developed a range of products which we believe will compete very successfully in this sector," comments Bob Laird, Marketing Manager for Tate & Lyle.

convenience in the home. In addition, our pre-launch research highlighted the strength of the Tate & Lyle name - particularly in offering top-quality products - so our packaging needs to reflect and promote this image.

"We have been very pleased with RPC's contribution to the project, both in terms of the company's creative input and its CAD facilities which enabled us easily and quickly to adjust and refine the original design, as well as the quality of the finished containers and RPC's ability to create the 'swirl' effect in the neck of the bottle."

Mr Laird added that the entire packaging of the 'Tops' range had scored very highly in pre-launch research.

NEW MARKET IN PET BOTTLES

RPC Containers Raunds is supplying custom-moulded 400g polypropylene bottles to Tate & Lyle for the launch of the company's new 'Tops' dessert topping range. This major order continues RPC Raunds' development of polypropylene production to accompany its existing HDPE business.

The new squeezable polypropylene bottles are consumer-friendly and easy-to-use. They feature colour-coordinated polypropylene pop-up lids with tamper evident seals and colourful labels to provide maximum on-shelf - as well as tabletop - impact. To give the bottles further appeal, a 'swirl' design has been moulded into its neck.

Sugars. "Packaging is obviously an important factor for visual impact to encourage trial, and for consumer

**ENSURING THE CORRECT PRODUCT IMAGE**

Containers from RPC Raunds' Impact range have been selected by Cuprinol Ltd for the launch of two product ranges.

1 and 2 litre size Impact containers are being used to package floor polishes as part of the company's new 'Enhance' waxes and polishes range, while 2.5 and 5 litre containers have been chosen for three products in the revised and repackaged Cuprotect range.

In both instances, says Cuprinol Ltd's Purchasing Manager Ian Dunning, the Impact containers were selected for the on-shelf appeal and premium image which this standard container range projects.

"With these new ranges, in particular, we wanted to create maximum presence and appeal on-shelf and present a much more upmarket image than is possible with the standard Jerrycan. RPC's Impact range gave us virtually what we were looking for without any need for custom-moulding.

"For both ranges we have been able to select a practical pack which still ensures it grabs attention on-shelf," concludes Mr Dunning.

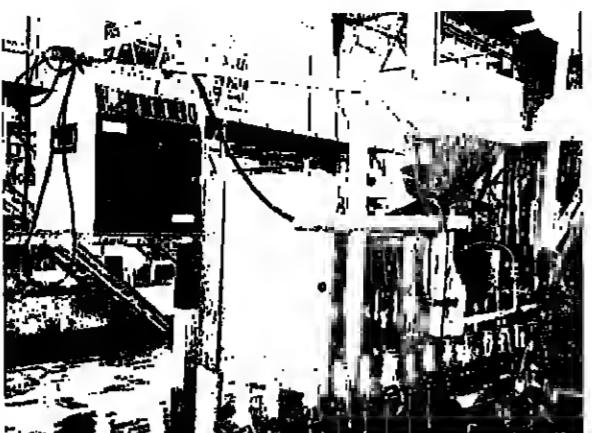


BREWING GROUP CHOOSES WILLETT

Willett distributor Servicios de Codificación y Controles in Colombia has secured an order for 26 Willett small character ink jet printers from Bavaria Brewery, the fifth largest brewing group in the world. As well as plants in Spain, Portugal and Ecuador, Bavaria has 16 plants in Colombia.

The Willett ink jet printers are being installed at half of the plants, which between them have 52 bottling lines, some running at 2000 bottles a minute. They are to be used to print a two line code on the tops of the bottles.

The company won the order against stiff competition, due to the lower running costs and superior back-up available for the Willett equipment.



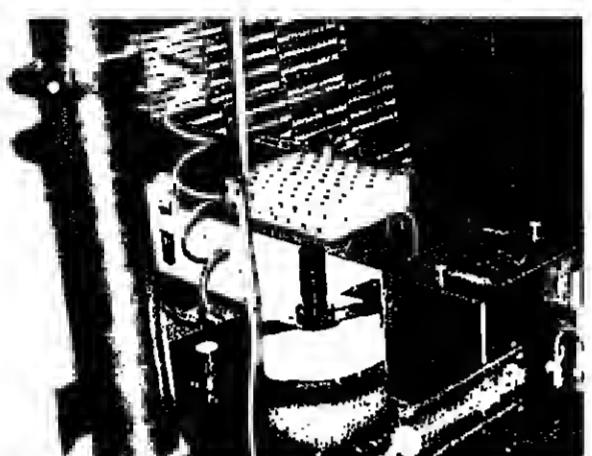
Willett ink jet printers are used on the high speed lines at the Bavaria Brewery plants.

MUSIC DISTRIBUTOR ADOPTS BAR CODING

A system involving four Willett printer/applicators and eight bar code readers has been installed in the plant of a Spanish music club to automate the mailing of records, tapes and CDs to club members.

Pleneta del Agostini is the biggest company of its kind in Spain and the third largest in Europe. Every day thousands of packages are processed for mailing to members all over Spain. Now the sorting of the packages is carried out automatically by using bar coded labels.

As they enter the first part of the system all packages have a 2 or 5 bar code label applied to them by a Willett printer/applicator. This code contains details of the pack contents and the address of the customer. Further down the line the code is scanned and the information passed to a PC which feeds further details to a second Willett printer/applicator. This unit prints a larger label carrying three 2 or 5 bar codes plus the customer address and a post office stamp. This label is then scanned and the parcel is routed automatically to the correct postal sack for the region in which the customer is located.



Using bar codes all parcels are routed to the correct mail bag.

SECOND QUEEN'S AWARD

Continued from Page 1

stronger position to control its own aftermarket, guarantee its own reputation, and gain closer contact with customers and ever changing market needs. The company has benefitted from feedback from its sales companies and distributor partners which has assisted development of new products and product enhancements, whilst meeting European, North American and Japanese safety and performance standards.

Solid International operation

Commenting on The Queen's Award, Allan Willett said, "By combining our high tech products with dynamic marketing, we have built a solid, medium-sized international operation with a turnover in excess of £50 million, employing 600 people worldwide. I attribute our success to our controlling the quality of our products and services through our own worldwide distribution network. Today, the information technology revolution means

instant communications and the ability for almost anything to be made anywhere. As the only manufacturer and supplier of coding, labelling and bar code printing products with such a worldwide network of our own sales companies and distributors, Willett is at the forefront of this revolution."

New Sales Office for Willett in Finland

Willett has expanded its sales operation in Finland, through Willett OY, a wholly owned subsidiary of Willett International.

The General Manager of the new office will be Kari Lehmonen. Kari has considerable experience in business management in Finland and overseas.

Joining Kari will be Benita Trog and Harri Haapalainen, who most people will know for their work with the previous distributor OY Mark-Tech AB.

Benita will take up the position of Sales Administrator, and Harri will look after service. We wish them all every success for the future.

STATISTICAL ENERGY ANALYSIS

What does a rocket launch have to do with protective packaging? The connection is SEA or Statistical Energy Analysis, something used by engineers for the last 20 years to measure the effects of impact and vibration on many types of structures.

SEA was first developed to study and measure the noise and vibratory motion of payloads during rocket launches. A model was developed to simulate the deviation of what is called the transport theory. It is modelling which looks at the input, throughput and output of energy into a given subsystem.

Willett Scholar Robert Clarke has been studying SEA at Oxford University under Dr Andrew J Keens in what is believed to be the first study to apply SEA to packaging. Clarke has been involved with vibration testing in the United States and is a graduate of Michigan State University's School of Packaging. However it was the Willett Scholarship which gave him the chance to study at St Catherine's College, Oxford, where he first encountered SEA. Most of the work is still theoretical at the point but he intends to show that SEA has practical applications and believe it could have monumental consequences for the packaging industry and the way goods are packaged to prevent damage during transportation.

Here ROBERT CLARKE explains the theory behind SEA and how it can be used to the advantage of the packaging industry.

The study of damage is about energy, since without some form of energy flowing into a product there can be no damage. This energy often takes the form of shocks or vibration, and if it is not guarded against, it can result in a pile of expensive junk. While energy can take other forms, these two are given the most importance for evaluating the inherent ruggedness (or weakness) of any given product and its package system.

Most people think of energy as a combination of shocks and vibratory inputs, and this is entirely right, though, in reality, each is a form of energy in its own right. In shock, designers need to be concerned with the magnitude and shape of the shock pulse as well as the associated velocity change. The velocity change is often considered a measure of the energy content of the pulse of Power Spectral Density (PSD).

Proper protection level

Exposure of a product to these input energies helps determine the relative level of fragility which is needed to develop a package system that gives the proper protection level at the lowest cost while considering environmental constraints at the same time. As you can imagine, this is not always an easy thing to do.

The study of electro-mechanical product design and the proper packaging must incorporate these concepts of energy. A new way to study the effects of vibration energy is to apply Statistical Energy Analysis (SEA) to the product and package system. SEA is a means to predict what will happen to a product when it is exposed to some level of random vibration input.

Since we have discussed why the energy analysis is important, we should also explain why we need to include



ROYAL VISITOR AT HEADQUARTERS

His Royal Highness the Duke of Kent paid a visit to the Willett Headquarters at Corby recently. He toured the manufacturing facilities and was shown a number of recent developments from Willett including the new programmable overprinter which is being demonstrated in our photograph.



The Willett 2760 adds clear information to nut and screw packs.

PRINTER SMARTENS UP NUT PACKS

The Willett 2760 programmable overprinter has been selected by an Austrian company to replace hot foil printing.

A.B. Lilabadi packs, pedagogues and raisins for sale throughout Europe, and, until recently, all the packs were marked with a basic code using hot foil printing. Now Lilabadi has replaced these codes with Willett 2760 printers and is not only able to print much clearer codes carrying more information but is able to include variable information.

The Willett 2760s are mounted on the company's form, fill, seal machines which operate at up to 75 packs a minute. The codes now used on the packs contain a mixture of alphanumeric and bar coded information as well as a logo.

statistics. Statistics are used because the very definition of random vibration says we cannot predict what will be the exact input at any given point in time. Thus, SEA has been developed to give a statistical basis to what inputs are likely to be imparted to the product or package system as well as determine the likely response of the product to these inputs. Note that random vibration can affect the product regardless of whether it is packaged or in shipment or out of package and operating in its intended end-use environment.

Susceptible to fatigue

The study of vibration is critical to electro-mechanical products since these products are extremely susceptible to fatigue and outright failure due to accumulation of stresses caused from vibration. An example of how this works is known to everyone: the bending of wire back and forth until it snaps in two. In distribution shipments or end-use operations exposed to vibration the flexing of the electrical components inside the product can cause the same effect, the failure of the component due to flexure stresses.



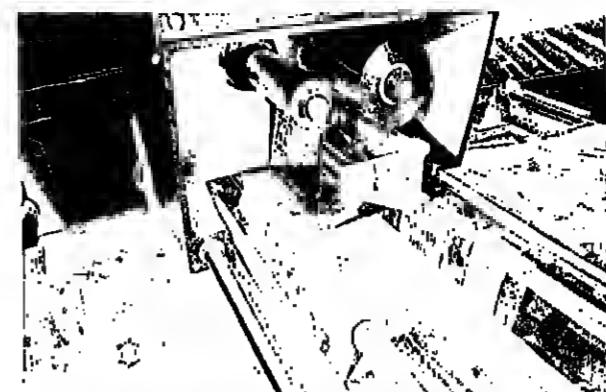
Willett Scholar Robert Clarke

TRIALS WITH WILLETT OVERPRINTER LEAD TO SUCCESSFUL CONCLUSION

Following successful trials in a full production situation, confectionery manufacturer Craven Sweetmate Ltd has purchased two of the Willett 2760 programmable electronic overprinters launched last year.

Craven Sweetmate needs to add best before and use by dates as well as production information to its products. Previously this was carried out as an off-line operation through the use of labels applied by a hand gun. The Willett 2760 enables the information to be added to the packaging material itself immediately before the bags are formed and filled. The information can be changed in an instant as the packaging machines are running.

Craven Sweetmate has a great many short runs of product destined for many different markets and the use of the Willett 2760 has not only improved the appearance of the packs but considerably reduced downtime on the high speed lines on which the sweets are packed.



The packaging material is coded immediately before being formed into bags.



The Willett ink jet printer was originally installed to code Tie Maria ice cream tubs.

SPECIALITY ICES CODED CLEARLY

A Willett small character ink jet printer installed by ice cream manufacturer Jaconelli Ice Cream has proved so versatile it is being used to tackle more tasks than originally intended.

Jaconelli Ice Cream, a family firm based in Scarborough in the North of England, produces speciality ice cream. The Willett ink jet printer was originally installed to add a five digit best before and lot code to the rim of plastic tubs of Tie Maria liqueur ice cream.

The printer proved so successful that, as Jaconelli became more familiar with its capabilities, its use was extended. Now it is used to code a wide range of products, including bonbons, ice cream truffles, cassata and real fruit ice cream.

As well as coding up to 9,000 tubs of ice cream a day, the Willett ink jet printer is also now used to add information to 30,000 individual portions as well as outer cartons holding products.

INK JET OVERCOMES CODING PROBLEM ON CONDUITS

Codes, some up to 100 characters in length, are being added to a wide range of electrical conduit, trunkings and associated accessories manufactured by Mita (UK) Ltd using Willett small character ink jet printers.

The products are sold within the UK and exported to all parts of the world. The uses range from domestic and light industrial to heavy duty applications in the chemical and oil industries. Information applied to the products includes reference numbers, dimensions, the company name, country of manufacture and BS5750 accreditation.

Mita had tried several ways of applying this information including hot foil printing, thermal transfer printing, self-adhesive labelling and ink jet printing using equipment from rival companies. None met Mita's requirements exactly until Willett's small character ink jet printers were tried. These not only gave the quality of print and printing speed required but proved economical to run as well.

Willett printers have now been installed on five of the lines at Mita's plant in North Wales along with special Willett designed software to control the coding operation.

WINE CASE IDENTIFIED AUTOMATICALLY

With its wine being sold under thousands of brand names in many different countries, Chilean wine producer Concha-y-Toros was eager to find a way of correctly identifying the cases of wine automatically.

At the same time the company needed to print a batch number onto each individual bottle of wine and ensure the correct product is packed into each outer case, despite the thousands of brand names and sub-brand names under which the wine is sold. Concha-y-Toros also wanted



Concha-y-Toros produces thousands of differently labelled wines and all the cases are correctly identified thanks to Willett.

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Quality Approval for Entire Willett Range

Back in the late 1980's Willett Systems Limited was one of the first companies to respond to customer demands for higher Quality Coding products by the introduction of a



Quality is designed and built into the entire Willett range of products.

FILTER CODING IMPROVED

Truck air filters manufactured by the Donaldson Corporation of Stevens Point, Wisconsin, were traditionally identified using a hand stamping system, but, for some time, the company has been searching for a method of upgrading the marking process.

Following a visit to the Pack Expo exhibition, Donaldson decided that ink jet printing could be the answer and asked a number of manufacturers, including Willett, to demonstrate their equipment in a production environment. The trials led Donaldson to select Willett small character ink jet printers as the most suitable for the task.

Donaldson now uses Willett printers running with a special water washable MEK alkali ink to add information to the top or side of the filters. The ink passed a number of tests initiated by Donaldson to assess the ease with which it could be removed from the filters when required.



Water washable ink is used to code truck air filters.

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Quality improvement programme, in December 1991 this resulted in the company being awarded ISO 9001 registration of its inkjet division.

This much coveted and demanding Quality management standard is now internationally accepted as the guarantee of Quality companies which design and manufacture Quality products.

Not content or complacent, the Willett organisation is continuously improving its quality control systems, as of March 1994 not only inkjet printers but all of the products within the extensive Willett range are covered by the ISO 9001 registered Quality system.

To reflect this change, the scope of Willett approval has been amended by the British Standards Institution (BSI) and now reads 'The Design and Manufacture of Coding, Marking and Labelling equipment and consumables'.

The extent of this scope of approval is unique to Willett and is unrivalled in the Coding and Identification Industry.

DOES CHIP AFFECT YOU?

Anyone packing or transporting chemicals should be aware that the CHIP regulations came into force throughout the EU in September 1993 and, if they are affected by the regulations, they have until September 1st 1994 to comply.

The regulations, Chemicals (Hazards Information and Packaging), cover all hazardous chemicals packed into containers. Labelling of all containers is an important part of CHIP. All packages used for dangerous chemicals must be labelled with the name, address and telephone number of the supplier, the name of the substance or trade name, if it is a preparation, an indication of the dangers and the associated symbols, the correct risk phrases and safety phrases.

Many companies are revising their labelling operations in the light of CHIP. Where manufacturers have a wide range of products computer label origination software, thermal transfer label printers or even print/apply systems are proving ideal.

If you need information on CHIP, Willett can help, so that you don't get caught out this September.

SYSTEM ENSURES THE RIGHT PICTURES ARRIVE

The ease of operation and the high print quality of the Willett 2760 programmable overprinter are two of the characteristics leading to its selection by a Norwegian company for addressing photographs for return to customers.

Foto Knudsen specialises in mail order film processing and printing. To ensure the correct photographs are despatched to each customer, a system has been developed using a bar code identifying each film and set of prints. A scanner reads the bar code and passes the correct addressing information to the Willett 2760 which prints the address of the customer, the address of Foto Knudsen and a postal logo onto a section of plastic film which is then used to seal the tray ready for posting.

Three Willett 2760s have now been installed by Foto Knudsen. The unit was selected in preference to an ink jet system offered by a rival when Willett was able to demonstrate that the rival ink jet system could not print the postal logo to the standards required by the post office.



Treys are sealed using film printed by the Willett overprinter.

SIMPLE SOLUTION LEADS TO HUGE ORDER

A bit of lateral thinking has enabled Willett distributor Siamatic of Theland to win a huge order for Willett small character ink jet printers.



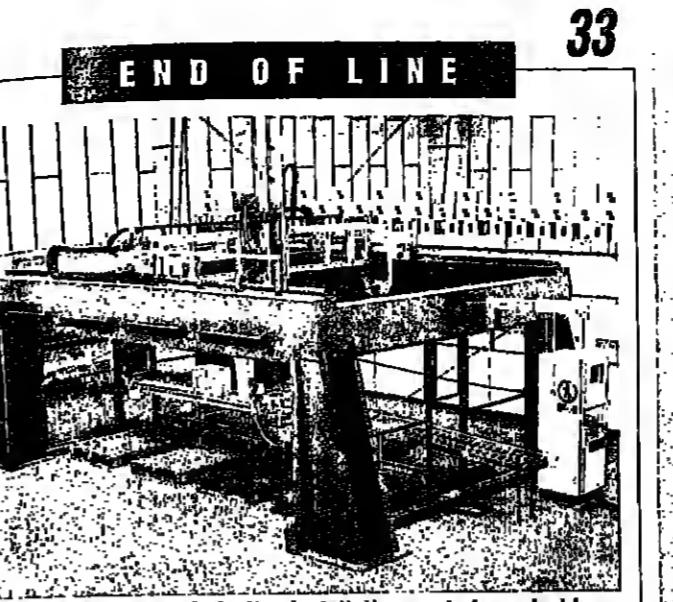
The correct codes are now printed easily, thanks to the solution provided by Willett's distributor Siamatic.

Siam Pipe has installed 55 Willett ink jet printers on the lines extruding a wide variety of different pipes. The company was running some Willett small character ink jet printers as well as some from a competitor.

The information being printed included several special graphics and logos but low characters from the standard character set, and Siam Pipe was looking for a simple way of inputting the information to the printers.

The competitor's solution involved the use of a card carrying the information in bar coded form and a data wend to input the information. Siamatic came up with a much simpler solution: they removed all the unused characters from the software and replaced them with the logos, then produced special keypads showing the new set up.

Siam Pipe was delighted with the ease of use of the converted units, as well as the lower running costs and reliability of the Willett units compared to those of the competitor.



The pick and place palletisation installation, part of a project by Entertainment UK to automate its packing and distribution

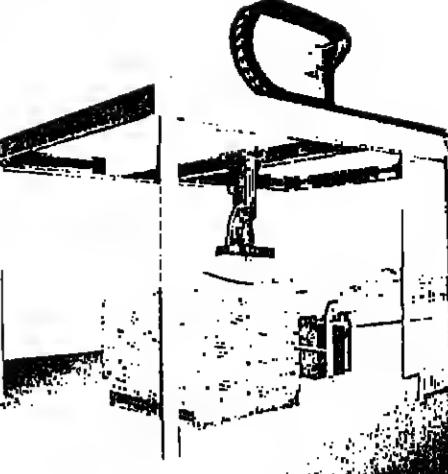
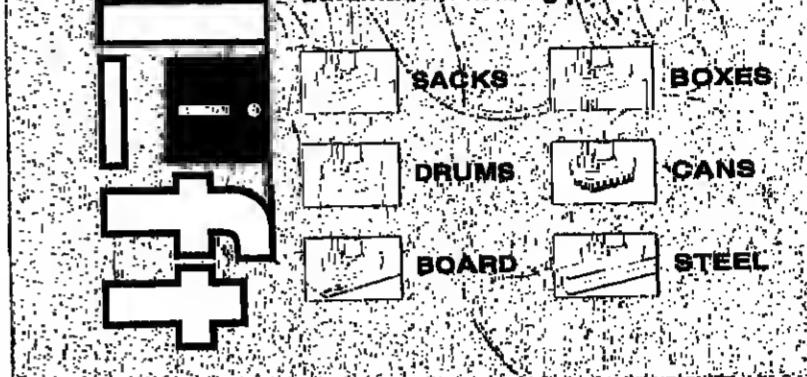
33

END OF LINE

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Overwrapping... Overwrapping



Overwrapping... Overwrapping

"Was keen to cut manual lifting"

While it is difficult to justify the investment in terms of labour saving, he says, the company was keen to cut down the amount of manual lifting. Naturally, if the company did want to shift to palletisation for all product, then there would be major savings.

Even though misrouting of product has not been a serious problem up to now, there will also be benefits of accuracy, says Mr Bridgland. Since the company was also responsible for not overloading the vehicles - which are not their own - close attention to individual pallet weights was vital.

Entertainment UK supplies over 100 different delivery depots from its Hayes, Middlesex, plant and required a system which could give reliable round the clock operation.

Robotee has just moved to a new site, with more space for manufacture (The Midway, Lenton, Nottingham NG7 2TS - tel: 0602 550055, fax: 550056). Versions of the robot pick and place palletisers are on order to different users for sacks and diy products.

The company's range of palletisers also includes the Smart 500 and 1000. Ideal for snacks and point of sale confectionery, the 500 is a compact system while the 1000 is a heavy weight version designed for high volumes of consumer goods.

For further information call 0838 772288 or enquiry number K7-405

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END OF LINE TO TRANSIT

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The steady decline in glass and cartons for milk packaging and the dramatic rise in plastics bottles has meant the dairies have had to install new end of line machinery.

Since the roll containers and the chilled display units for milk in supermarkets were originally sized to accept gable top milk cartons 40 to a shelf in an 8 x 5 configuration, retailers have demanded an automatic method of loading the hinged front shelved roll containers so that they can simply be wheeled into chilled display units.

However, as cartons still dominate, the supermarkets have been reluctant to change either trolleys or modify shelving to cater for the dimensions of the larger plastics containers.

As a result, end of line machinery manufacturer, GBE Lerner Burgess, has had very strict parameters in which to work to design new trolley loaders for dairies.

Plastics milk containers are sized to fit into the pocket of a fridge door, but only the six pint bottle can be collated in a straightforward 4 x 3 configuration. The four pint container needs to be loaded 19 bottles to a layer 4 x 4 and a fifth row of three bottles sideways on. This posed a number of problems. But by erecting five lane dividers and placing one row sideways on, these have been overcome.

The three litre container needs to be loaded 4 x 3 with a further sideways row of two. To ensure stability during cage loading and in-store off-loading, the cross row of bottles cannot be placed at the front or back of the collation.

Empty roll containers are picked up by a robotic arm and loaded vertically into the

first station. As the container descends, the guillotine back is secured, which allows the bottles to move in. The container then slides to the loading point where it can be secured. Completed roll containers then pass to a third station where they exit onto a conveyor that carries them into an automated cold store.

At Dairy Crest, Fenstanton, the roll container is loaded through the front. Therefore to achieve the correct facing, the entire collation of bottles is taken on a turntable and rotated 180° before entering the container.

To date the company has installed six semi-automatic trolley loaders and two fully automatic trolley loaders at Express Dairies in Ruislip, which is the UK's first fully automated dairy.

Typically the TL2 operates at speeds of 160 bottles a minute

The proliferation of plastics packaging in the dairy market has led to new end of line machinery being required. Camilla Reed reports on GBE Lerner Burgess' custom made trolley loaders being installed at dairies around the country.

K7-418

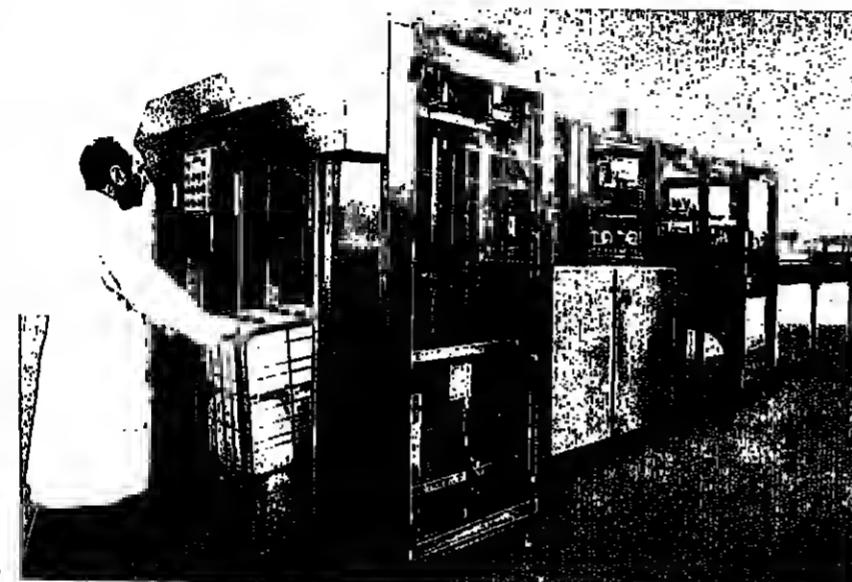
A decision by some retailers to specify polybottles for the packaging of two-point containers could double the number of polybottles in use to around 500 million a year.

The packaging manager of a leading supermarket tells PN that he sees all two-points eventually being packaged in polybottles. "There is no advantage in polybottles over cartonboard or vice versa. However, people are converting because of the cost involved."

Mr Goldsbrough of GBE says the machine is cost-effective and less labour intensive. Using this machine at dairies only three operators are needed instead of six or eight people. It also takes away health problems that can go with heavy and continuous lifting.

Dairy Crest now has three polybottle lines and two cartonlines, and uses the Lerner Burgess machine for four pints mainly in trolleys either three or four stacks high.

For further information K7-128 Call for details 0839 772288



The five lane dividers piece one row sideways to achieve a collation of 19

shrinkwrapper from BVM, says UK and Ireland distributor WLT Ltd. Running at speeds of up to 80 packs a minute, the Speedmaster from German manufacturer BVM is ideal for shrinkwrapping the sort of multipacks destined for discount supermarket cash and carries.

There is no sealing bar, but sensors monitor the length of film before it is cut and folded underneath the collation prior to shrinkwrapping. This technique

means that there is no side weld to obscure the contents and users can make savings on film.

With the upgraded line, the lane divider feeds the bottles from the infeed into appropriate orientation and collations rather than letting them roll round each other as with

the previous tray loader, which would have involved a costly shutdown. Parke Davis opted for a more versatile system which was installed alongside it.

One of the strengths of the system is the choices it offers at the palletising stage. Shrinkwrapped packs can go straight to the palletiser - not supplied by Europack - nor be grouped for the formation of larger wraparound trays first. Hand palletising is another option.

The modified line was tested at Europack and then assembled and tested on site. Parke Davis has used Europack as its principle supplier of end of line machinery since 1990, when it installed the original end of line packing. The manufacturer singles out Europack's reliability of service and technical problem-solving skill as particular strengths.

For further information K7-104 Call for details 0839 772288

END OF LINE TO TRANSIT

Bottle shape change challenge

Changes to the basic shape of a primary pack can have wide implications for the final stages of the packing line, as demonstrated by solutions provided by Europack for pharmaceutical manufacturer Parke Davis.

When Listerine antiseptic mouthwash was repackaged in oval section bottles there were space saving advantages for the manufacturer, but also special challenges for end of line at its factory at Pontypool, Gwent.

Collation was all the more important because the bottles had to be correctly orientated in the trays. The existing line comprised a tray erector, tray loader and shrinkwrapper. Europack's upgrade to the line included lane dividing, a new tray loader and a wraparound tray erector.

Bottle sizes between 200 and 600ml can be handled on the line, which runs at speeds of up to 200 a minute.

"We have adopted Europack because their machines are built to do the job, their appearance matches the high standards of a pharmaceutical environment, and

Parke Davis.

For further information K7-104 Call for details 0839 772288

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END OF LINE TO TRANSIT

Layer trays give palletiser savings

A palletising system which uses layer trays rather than traditional cases is said to give savings of up to 50 per cent on corrugated board while stabilising the load.

Italian manufacturer Gruppo Elettric 80 has developed the robotic Pallet Pak system for regular shaped product. It places an oversized pad between pallet layers, folds up the sides and glues the corners with hot melt adhesive.

Pneumatic fingers fold up

the pre-creased board around the product - wrapped tissues, sugar, flour and cartons, for example - which is typically loaded in collations of 5 x 8, with pallet patterns varying according to the needs of the particular product. When the sequence of layers is complete, the finished pallet can be stretchwrapped for protection and further stability.

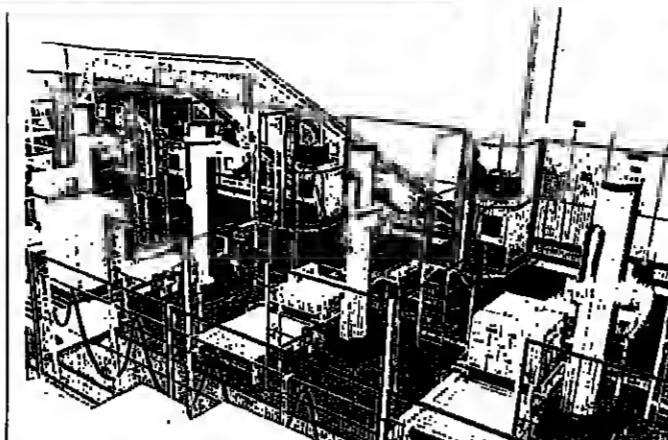
Different pallet sizes including the standard Europallet can be handled by

the system, which will place and glue layer pad trays with sides between 40 and 200mm high. One layer can be formed on average every minute. Format change is automatic.

When standard palletisation is required, the forming frame can be swung away on pneumatic arms, according to the company's UK agent, Noem Packaging Technology (Millshaw Park Avenue, Leeds LS11 0LR - tel: 0532 779504, fax: 780557).

Full programming facilities and axis control operate through a Siemens plc, with the ability to create layer patterns as required.

For further information K7 Call for details 0838 772288



Each of the palletisers will accept at least seven cases a minute

U-cards reduce material needs

As part of a drive to reduce packaging materials, pharmaceuticals company Thornton & Ross has moved from cartons with board dividers to packing its bottled product on stretchbanded U-cards.

Complementing a lightweight version of the standard round bottle used for almost all its liquid products, the company set out to find an end-of-line system which minimised material, ensured adequate flexibility



One of the four Skinetta Kleiner stretchbanders

between products and provided a stable, goodlooking pack.

For further information K7 Call for details 0838 772288

Cartoning and overwrapping options were considered, but the solution chosen was an installation of four Skinetta Kleiner ASK 450 stretchbanders. Three of these run in line, and one is free-standing for special packs and short runs.

UK sole distributor is Propack Automation Machinery (Binns Close, Torrington Avenue, Coventry - tel:

0530 414444, fax: 411110).

Barcodes on each case are scanned before they enter the cooler, determining how each pack is treated at this stage and where it is sent afterwards.

The five conveyors after the cooler take product to one of the four robot palletisers or a hand palletising station. The Staubli RS 154 series robots will palletise a given product until no more reaches it on the infeed, when it will switch over to another. Each palletiser will accept at least seven cases a minute. While it has a small footprint, the four-axis system has a reach of 1500mm and can lift 40kg. (Dunn is at Smisby Road, Ashby de la Zouch, Leicestershire LE65 2UR - tel:

0530 414444, fax: 411110).

AN AUTOMATED pallet production system from Duo-Fast Ltd (0932 349998) means that productivity can be doubled, with the potential for switching production from one product to another. Workbed angles can be built in to suit the operator.

For further information K7 Call for details 0838 772288

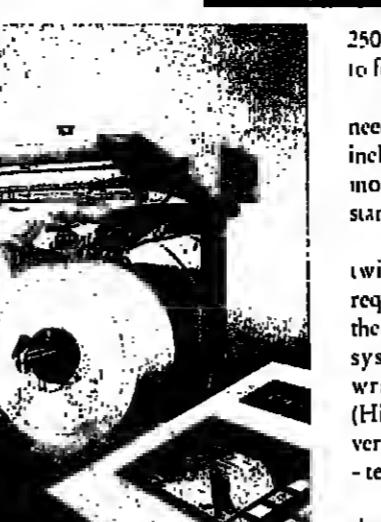
BRIEFLY
GKN CHEP LTD (0932 960086) will now handle DE Plastics' pool of returnable plastic bins and pallets. The Decon Ibc and Depal pallet were developed as returnable alternatives to DE's one-way systems.

AIR PILLOWS can be produced on demand and used for damage at a lower cost than other cushioning with the Airfill 1200 system from Amseac Services (0203 367984). The pillows can be kept in a string if preferred.

WIGGINS TEAPE Packaging (0256 723000) is joining forces with Astra UK to advise on stretchwrapping machinery as well as film. The company will also now supply automatic, semi-automatic and manual stretching equipment to complement its materials stocks.

CORRUGATED CASES are now available in 30 different sizes from A1 Packagings Ltd (071-997 6381) up to 60mm cubed in single or double wall variations. A1 also supplies the Repidapak transit system.

Checking of the barcode on labels applied is also built into the system. This prevents mislabelling of pallet loads, with the scanner providing information to compare with details held in the unit's memory. Printing, applying and scanning



Prestek's Cimpek pallet labeller: the head tilts on all axes

Labeller handles uneven surfaces

Improvements to the Cimpek pallet labelling machine from Prestek mean that the system can attach labels securely even when the load surface is uneven.

With a floating pad on the applicator, the head tilts on all axes and will ensure that the label adheres to an uneven surface.

The PARMX control system used on the Cimpek labeller, and also on the Cimjet print and apply labeller for trayed units, can build up and then store a label image including barcodes while the previous label is being printed. This facility dramatically cuts the time the printer is idle, and enables it to reach speeds of

250mm a second, labelling up to four pallets a minute.

To cater for different user needs, the design of the system includes a choice of applicator modules to be added to the standard labelling head.

Options include single or twin axis heads, if labels are required on adjacent sides of the load. This is a more reliable system than turntables or wraparound, says Prestek (Highfield Science Park, University Boulevard, Nottingham - tel: 0602 253220, fax: 430153).

For hundreds of label designs can be held in memory and accessed by a single code entered on the keypad. Alternatively, the labeller can be linked to a central computer database.

Barcode label images can be generated using Prestek's own Composer software.

For further information K7 Call for details 0838 772288

END OF LINE TO TRANSIT

Compact side loading sleeve

Space constraints on a food manufacturer's site led Endoline Machinery to develop an especially compact automatic side loading sleeve packer, fitting within just 1.5m and adaptable as a casepacker.

With the boost to its machinery design capabilities from the acquisition of the team from Advanced Design Systems, Endoline engineered the equipment which collates, side loads,

rotates the load through 90deg and ejects it for shrinkwrapping. The end user had found it difficult identifying a company

able to meet its requirements.

A low friction slot conveyor transfers product to the machine. Once on the dead plate, the collar activates the product position switch. Sleeves are extracted from the magazine and positively erected.

The machine can also be adapted for casepacking, says

Endoline (Stratton Business Park, London Road, Biggleswade - tel: 0767 316122, fax: 318033). Additional assemblies

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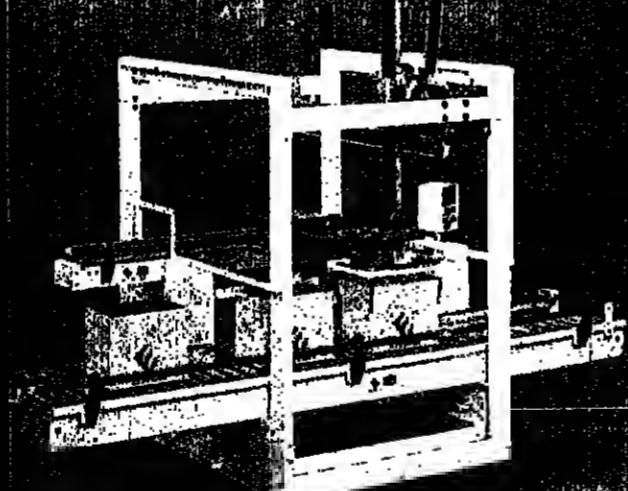
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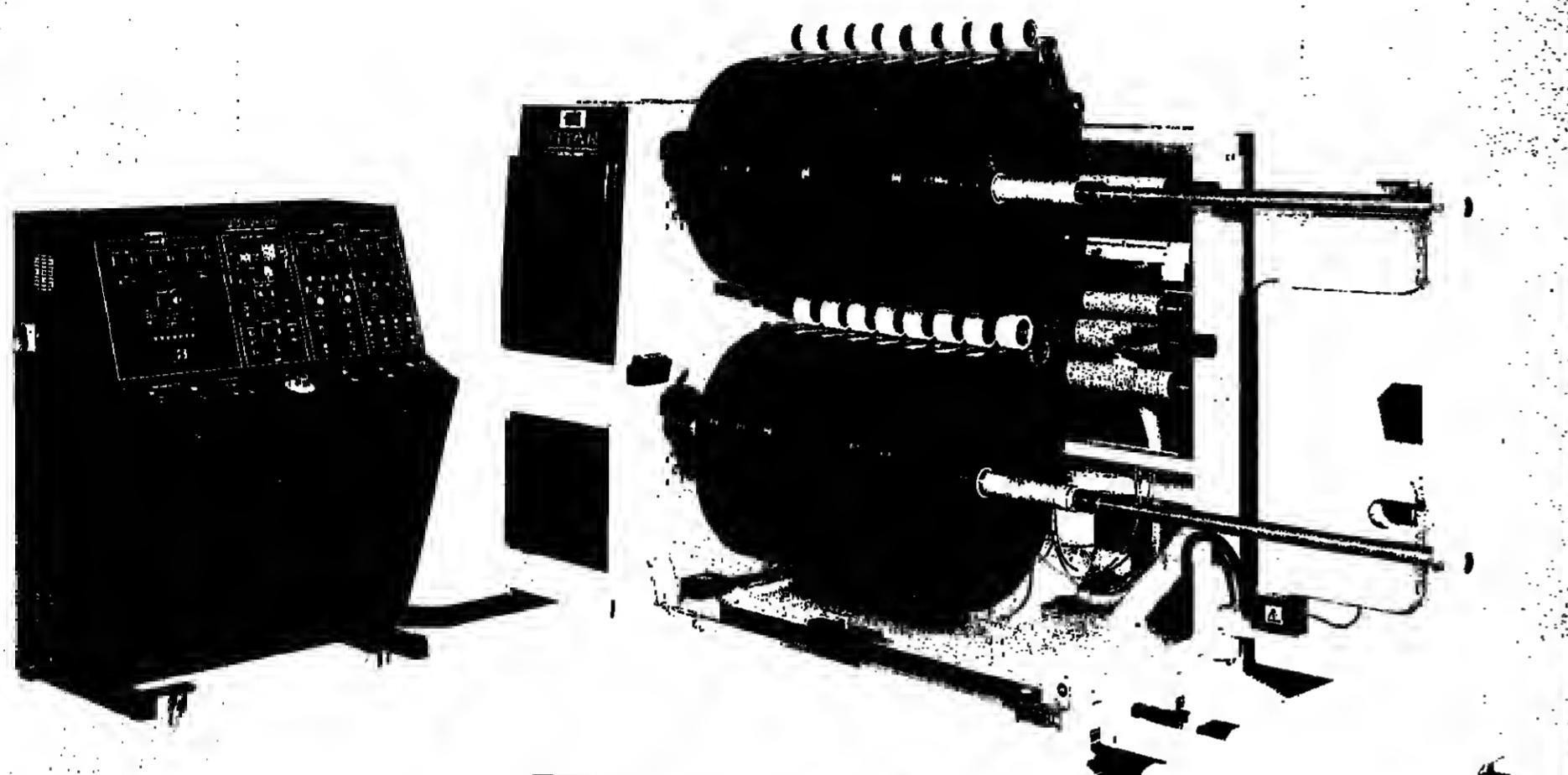
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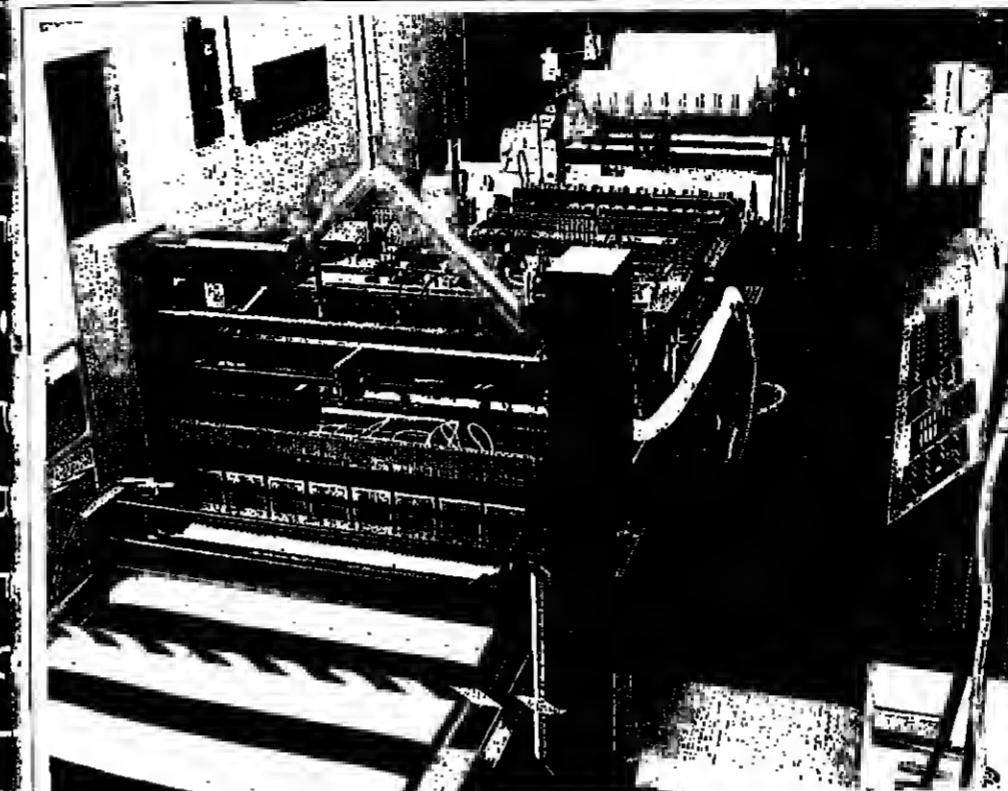
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WORLD



The packing list envelope operation at Tenza Ltd produces up to 100,000 envelopes an hour

Envelopes at speed

A 50 per cent increase in manufacturing speed is reported by Tenza Ltd's packing list envelope operation following the installation of a GN Packaging Equipment 54P machine - the first in Europe.

Tighter controls are another feature of the system, which has doubled the processing width possible to 13 lanes maximum and is now fully operational at Tenza's Saxmundham factory. The machine can produce over 100,000 envelopes an hour.

The slitting system leaves a nick which holds the web together for easier handling and manual packing at the out-feed. A servo-driven batch stacker counts out a preset batch size and then holds for indexing to off-loading.

Access to the side sealers is said to be good, an important feature for changeover which Tenza carries out an average of two times a day. The company estimates that changeover time will be brought down from around an hour to half an hour over a few months. Setup is through a pic which sets sealing times, lengths and speeds and monitors production.

In specifying the exact model of machine, Tenza says it learned from the experience of a

Selection system suits the needs of six-colour presses

A six-colour selection and separation system has been developed by Pantone to take on the existing 'high fidelity' systems, which are less suitable for six-colour presses.

The Hexachrome system, which will span inks to separations and involve suppliers of proofing equipment and screening support, will aim to maximise the potential of six-colour presses. There will be a particular focus on packaging printers and prepress, Richard Herbert, vice president of the electronic colour systems division, tells CW.

"We asked, how can we create the ultimate hi-fi colour system?" explains Mr Herbert. Best results within a six-colour

range would, Pantone believes, be achieved by adding two colours - orange and green - to a modified CMYK. Together these give a larger gamut of colours than do existing seven colour high-fi models, says Mr Herbert. It also avoids the need for two-pass runs where companies do not use seven or eight-colour presses.

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"More vivid
rendition"

The system will satisfy demand for more vivid colour rendition, while results are achievable on current systems and presses. The system, which has been fully trialled with printers in the

US, is due to be available in the UK from October or November, says Pantone (115 Sandgate Road, Folkestone, Kent - tel: 0303 259039, fax: 259830).

Cross-referencing between one medium and another is now possible with special software developed by the company. Having evolved industry/medium-specific palates, Pantone has recognised the need to cross-reference and find the closest match to given colours. Good or commercially acceptable matches and those which need checking are indicated on screen.

Cross platform support of Pantone's open colour environment (poco) has also been announced. Consistent colour from scanning to printing will be provided whether Windows 3.1 is being used on a pc, or ColorSync on a Macintosh.

While the basic architecture supports RGB and CMYK colour models, extended models such as Hexachrome can be accommodated, says Pantone.

For further information K7 Call for details 0839 772268

BRIEFLY

A BPIF (British Printing Industrial Federation) conference in association with the International Roll Label Federation (Flint) "Label 2000 - Self-Adhesive Converting Towards the Next Millennium" is to be held at the Grand Hotel, Brighton on 30 September 1994. For details contact Leigh Mortin at the BPIF (071-242 6804).

"A CONVERTERS' GUIDE to the Environmental Aspects of Expanded Polystyrene" has been published by the BPF (British Plastics Federation, 071-457 8000). It explains terminology, grades, waste management options and legislation for the non-specialist. The BPF has also launched its UK business trade survey.

COMMERCIAL ROLLERS SALES have grown at more than twice the rate of GDP - an average 4.7 per cent since 1985. The British Fibreboard Packaging Association (0804 21002) reports: "Compared to previous years, corrugated has been less badly affected by the recession than other packaging materials, it says."

PIMA INTERNATIONAL now has the results of its study into the performance of coated and uncoated papers during various printing processes. Among the achievements of the project are indications of future trends in paper and print and the identification of relevant paper properties. The Pima (0172 376161).

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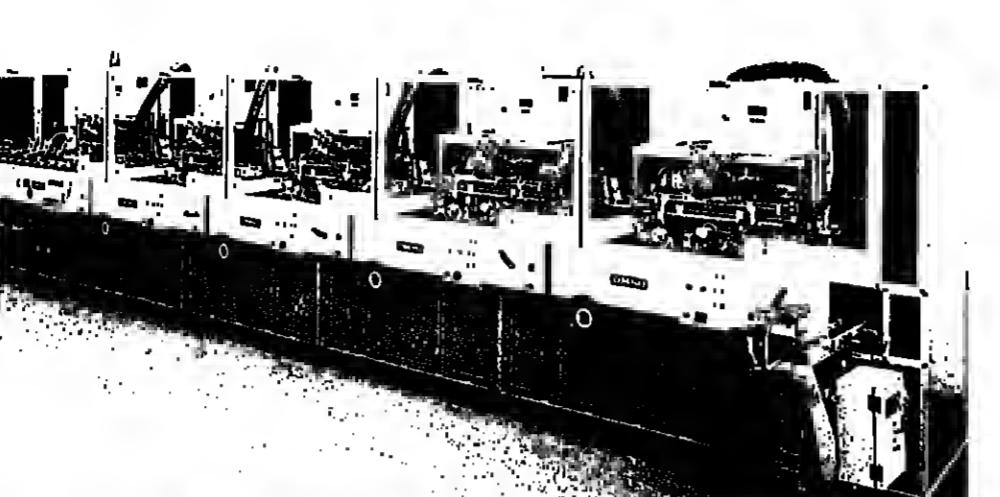
Quality offset on tapered containers

Papro 94 attracted 37,500 visitors from 93 countries, an increase of 5 per cent on previous shows. Almost 50 per cent of all visitors came to Düsseldorf from abroad, with the strongest contingent from the Netherlands, followed by the UK, Switzerland and France. We report on the materials and machines that dominated the show.

DM185 uv box printer, an automatic machine for dry-offset printing in up to six colours on tapered containers was launched by Italian firm OMSO SpA, and promises improved output flexibility and higher print quality. Fully automatic, from feeding, stacking to packing of the product, the machine can be used for oval, square, rectangular and other non-round containers at speeds of up to 9000 packs an hour. It is able to pack at the same speed as it prints, thereby saving in labour.

Setup times have been cut to 45 minutes, enhancing efficiency. The control allows programs for four different containers to be stored.

DM 185 has a number of



The Omso Novex M/DE silkscreen printing press incorporates UV drying system with digital control

improvements on earlier models. It has a central lubrication system for the gears so that the life of the gears is much longer.

The area of the print group has its own motor so it can be adjusted independently, Marco Magnani, export manager at

- tel: 0420 82421, fax: 89193).

"The machine can also do vignette printing by adjusting the strokes of the oscillating rollers, and can register plates out of the machine due to the optics" he adds.

OMSO presented two additional modules to its silkscreen printer the Novex M/DE. It incorporates UV drying systems with digital control and adjustable power output and can print up to ten colours on both sides on cylindrical, square or unusual shapes and boasts fast changeover and throughput of up to 6000 pieces an hour.

The Module DE can be installed in any position in the line after the initial Master.

For further information K7 Call for details 609 0839 772288

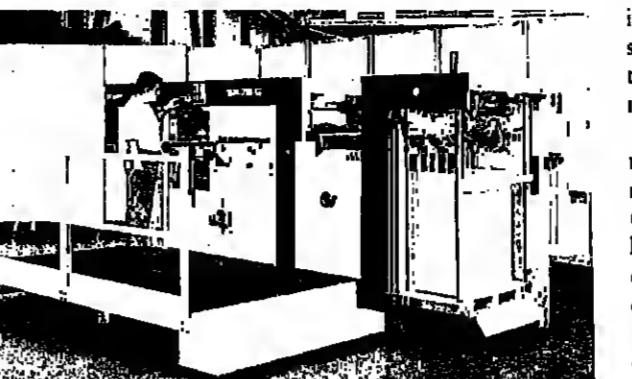
Off-line diecutting/cutting

As part of full, live cutting, creasing and gluing operation, Bobst showed its small-size automatic platen press running for the first time.

The Autoplaten SP76E diecutting and embossing press is designed for short runs off line, with performance determined by such features as the drive, registering and platen systems. With its 560 x 760mm format, the machine opens the doors to minimising production costs for short runs, says Bobst.

Smooth changeover between jobs is aided by the amount of off-press preparation that is possible. One operator can make the changeover. There is also an optional micrometer cutting plate adjustment system.

Centring and registration during operation are said to be



The Autoplaten SP76E diecutting and embossing press from Bobst

highly accurate, with centring and locking of the tooling streamlined to a single process. Control is through an integral display and keyboard.

One aspect of the machine's flexibility is its ability to work with materials varying from light paper to solid and laminated boards. Possible

Productive tube cutting

Tube cutting machinery, fitting into line after spiral winding, shown by Eherle sa included the latest addition to its range, the programmable Supra.

Key to the productivity of the Supra is its power, export manager Laurent Thomas tells CW, with 12kw driving the knives and making the system especially suitable for wider diameter and thicker cores.

Two models are available, covering the diameter ranges from 50mm to 300mm and 70mm to 100mm. They can be placed after any spiral winder, says the company (2 avenue de l'Energie, BP 51, 67802 Bischwiller, France - tel: 010 33 88336025, fax: 88623640).

One knife or a series of them can be used on either side. Only when the knives have been withdrawn will the base carriage move.

For further information K7 Call for details 615 0839 772288



The basic equipment version of Wupa's Magntop PS 3.4 press

Flat-bed system choice

Wupa's samplemakers and can be retrofitted to its own or other equipment. It is compatible with all cad and graphics formats, says the company (3, Weybaron, Byfleet, Surrey - tel: 0932 344061, fax: 342708).

Among the corrugated samplemakers available from Data Technology are the DT3000 and DT2200. They can work on sheets up to 3m x 2m.

For further information K7 Call for details 613 0839 772288

Flat-bed cutting, creasing and embossing systems shown by German company Wupa included the Magntop PS 3.4 and 4.4 machines.

Variations of the 3.4 included the version with basic equipment and the fully automatic model with stacking and sheet separa-

tion. Control systems have been made easier to use, says the company, represented in the UK by Edlon Machinery Ltd (Edlon House, Ashburton Grove, London N7 7AA - tel: 071-609 2266, fax: 071-700 4833).

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FLEXO CI MANZONI 6 COL. + 4 BACKUP, 850 MM WEB, 1989 SIMON VR CENTRAFLEX 44, 4 COL., 47 WEB, 31" SPlicing SIMON VR CENTRAFLEX 460, 8 COL., 47 WEB, 24" SPlicing

CIM PRESTIGE, 8 COL., 1400MM WEB, 1991 FLEXO ZOGAC, 8 COL., 1250 MM WEB, 1988 WUPA OLYMPIA 1375, 6 COL., 1250 MM WEB, 1978 WUPA OLYMPIA 1375, 8 COL., 1320 MM WEB, 1981

CORBIN CHADWICK & CO, 8 COL., WITH OUTBOARD PVC & SEAL COATER BIELLONI, 8 COL., 1250 MM WEB, 1981 CMF MIRAKO, 8 COL., 1250 MM WEB, 1984 FLEXO 1200, 8 COL., 1250 MM WEB, 1988 MAF, SUPERFLEX, 4 COL., 1000MM WEB, 1973 UTECO UNILE, 4 COL., 1250 MM WEB,

1980 UNILIN, 4 COL., 1250 MM WEB, 1981 FLEXOTECNICA 720, 8 COL., 1500 MM WEB, 1984 OMALFLEX 130, 8 COL., 1700 MM WEB, 1989 CARINT 1234, 4 COL., 900 MM WEB, 1982

ROTOLITHOGRAPH ANDREOTTI, 8 COL., 850 MM, AUTO BRUGG, 8 COL., 1250 MM WEB, 1980 HOLLOWELL, 8 COL., 810 MM WEB, 1989 UNIPACK, PACKAGING FILMS, 1980 ROTOLOC, 7 COL., 1000 MM, PACKAGINO FILMS, TECNOHEUD 300, 8 COL., 850 MM WEB, 1978 DERITI C10, 10 COL., REVERSING UNIT, LAST UNIT WAX & GOLD SEAL ROTOLUX, 4 COL., 850 MM WEB, 1987

COATING/LAMINATING EGAN EXTRUSION COATING/LAMINATING LINE 1000MM, POLY-PIPETE WET LAMINATOR, 1020 MM, POLY-COAT, PAPER-PIPER, POLY-PIPE SOLVENTLESS, 1040 MM, 1976 BARMAK EXTRUSION COATING LINE, BURGESS, 1000 MM, 1200 MM, 1500 MM, CIRCA 1972 WUPA, 1000 MM, SOLVENTLESS, 1400 MM WEB, 1981

BLENDING/REFINING/EMULSIFYING DUBERLIER, 1500 MM, CENTRE SURFACE, 1500 MM, 1988

GOEBEL DUBLIC 1500 MM, 1970 HANPEN 84, 930 MM, SHEAR CUT, SINGE RIV, HONEYCOMB PLATE, 1988

ELSA, 1200 MM, 1980, 1500 MM, 1982

1200, 1500 MM, 1500, 1800 MM, 1980

TITAN 500, 1000 MM WEB, 1000 MM UW, DUBLIC 800 MM RW

KAPPE, 1200 MM WEB, 600 MM UW,

DUBLIC 1200 MM, 1500 MM, 1980

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CONVERTING WORLD, BIRMINGHAM, ENGLAND

41

Flexo plates wash out in soft water

Flexeed water wash-out flexo printing plates, that use a high technology material that washes out in soft water using a dedicated plate washer to reduce makeready time, are offered in the UK by Supratech Systems (Europe) Inc.

Flexeed plate washers remove unexposed polymer from the plate during wash out and filters it from the wash after trapping non-hazardous waste and recycling most of the water. A quantity of fresh water is introduced during the wash out cycle.

Most conventional solvent

wash out plates require a minimum of two hours for solvent evaporation while Flexeed is ready within one hour in four steps.

It is also ozone resistant and can be used on water-based and solvent-based inks.

It is available in two types, blue and violet and in a range of thicknesses and sizes, says Tom Price, md of Supratech (Roundwood House, 134-136 Lane End Road, High Wycombe, Bucks HP12 4JX - tel: 0194 459444; fax: 461777).

Water is fed in at 40deg C

and has only one chemical

PAPRO REPORT

Low-cost cup former

additive added to it - 1 per cent of aluminium sulphate. Savings are thereby achieved through not having to dispose of solvents as well as providing obvious environmental benefits.

The Flexeed material has the characteristics of rubber and is therefore easy to handle and has good ink acceptance.

Mr Price says the performance of Flexeed is as good as a photopolymer but less impression is required and it has better solids area coverage.

It costs more than solvent

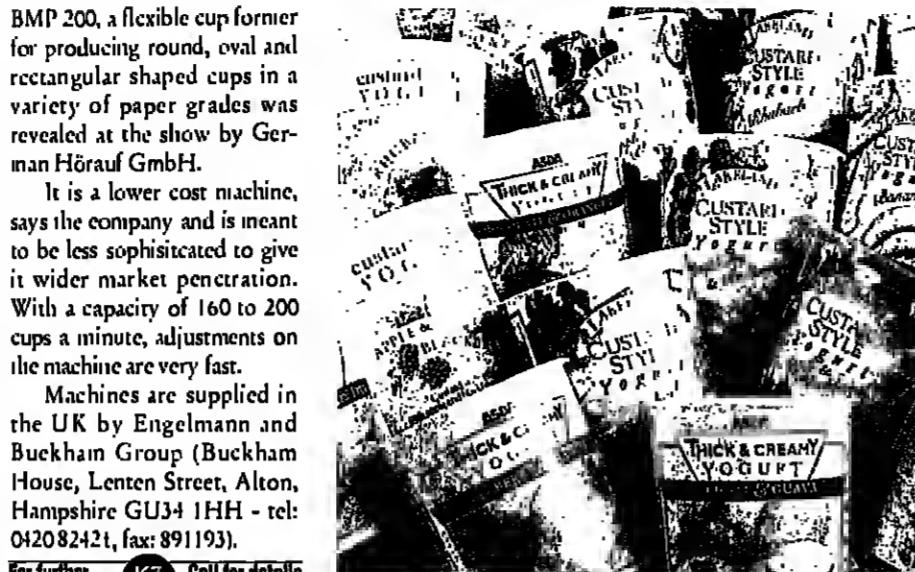
plates but there are savings through time saved and reduced disposal costs. In addition, it is not odorous, says the company. The biggest machine box at present is 75 cm. However 1 m plus is planned in the US for later this year.

For further information

K7 0194 459444

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The BMP 200 former produces cups in a variety of paper grades

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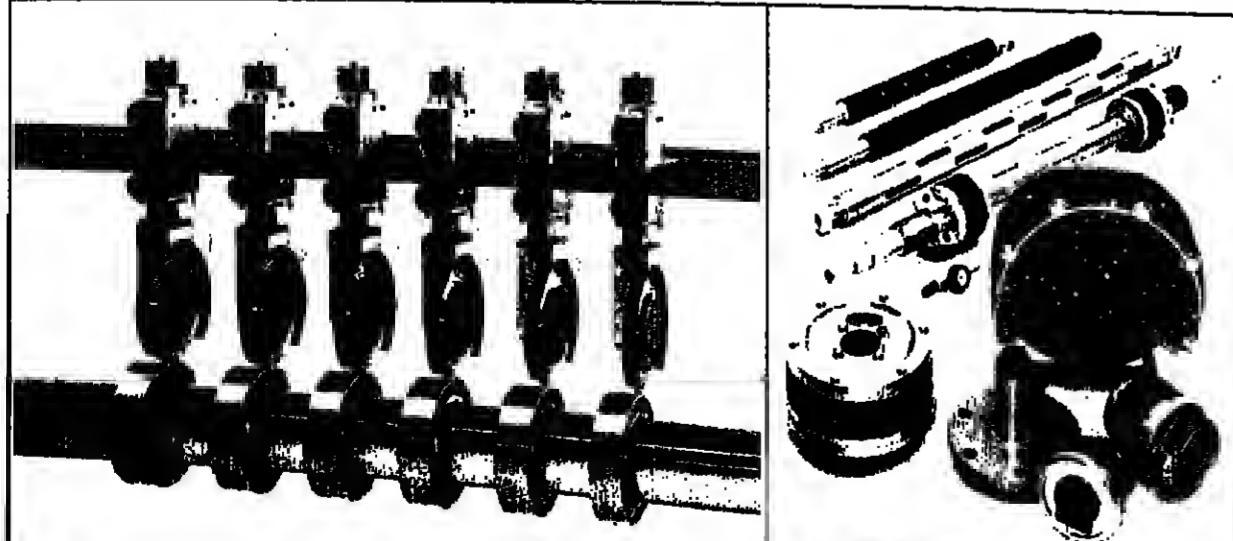


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COATING AND LAMINATING

Solventless laminator handles three layers

An undisclosed European converter has taken delivery of Polytype's first LF-Triplex solventless laminator, a 1280mm wide machine able to provide a three-layer construction in a single operation at speeds up to 400m a minute.

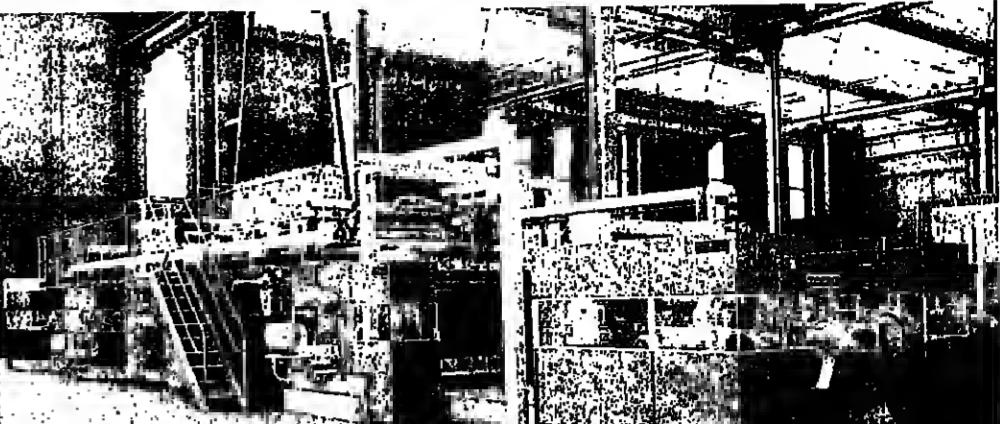
Developed initially with the alternative of two passes through a duplex machine, quality is equally significant, says Edlon technical director Lawrence Wild.

"First layer reactivated"

"When a triplex laminate is produced, the first adhesive layer can be reactivated during a second pass through the drying tunnel, leading to 'tunneling' or de-lamination," he explains.

Finer control of coating weights, down to less than 1 micron, is marking the progress of coating and laminating machinery, particularly in solventless work.

factor, compared with the cylinder layout that offers continuous web contact between the cylinders, so allowing close control of tension. Any vapours from the two-part



polyurethane adhesives employed are removed by an extractor fan in the housing of its Italian factory.

For further information

K7 061 0838 772268

completed a 2.4 metre wide solventless coating machine at its Italian factory.

Polytype has also recently

The Amount of Money We paid out in Penalty clauses last year

Choice of adhesives

DCM's Laminastar offers a choice of trolley-in coating heads, providing options for solvent-based, water-based or solventless adhesives.

Running speed has been increased over previous DCM

machines, says UK agent Linro

(Lowesden Works, Lambourn

Woodlands, Newbury, Berks

RG16 7RU - tel: 0488 72525,

fax: 0948 2302),

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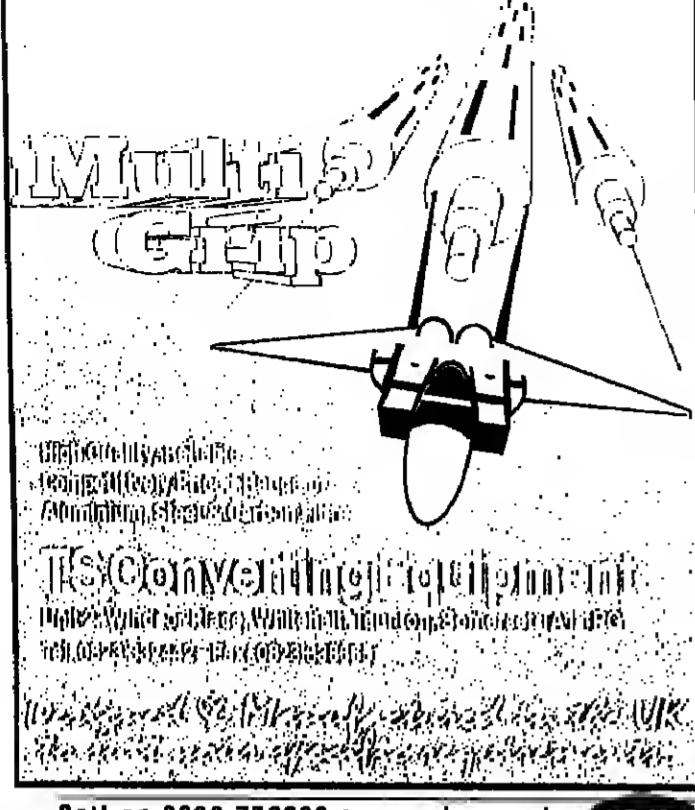
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Finisher opts for thermal lamination

Laminating and die-cutting specialist First Move Finishers in Milton Keynes has installed the first of Laatex Ltd's T720 in-line thermal laminators.

The sheet-to-sheet machine has a maximum size range of 720mm wide x 1020mm long and operates at speeds up to 65m/min depending on paper size, weight and quality. For operator convenience, and to avoid heavy lifts, the reels of

pre-coated film are loaded at the side of the machine with the web taken in via a turner bar. There is also an anti-curl roller system.

First Move partner Gavin Leake says that demonstrations of the T720 on solid black stock were convincing. "We were impressed with the high gloss levels achieved. The machine could run at speed, with one operator, and the

sheets were stacked neatly at the end of the jogger."

As well as the thermal laminator, seven types of water-based laminating machines are built by Lamtex (Unit 3B, Westhorpe Fields Business Park, Green Lane, Westhorpe, Kilhamshires, Derbyshire S31 8BD - tel: 0742 510988, fax: 0742 510977). The company has also developed its own water-based adhesives.

For further information K7 Call for details 0839 772288

Dies under pressure

Bottom feed dies, supplied under pressure from a pump, have been incorporated in the Pagendarm Akkutagravur 2000 coating system to improve accuracy across the entire width of the web.

Being pump fed, the pressure within the system can be readily regulated via a feedback control and can be used also to vary coating weight from a given gravure cylinder cell size by ± 50 per cent.

"This means that, for example, with a cylinder sized for 10gsm, pump pressure can be varied to give a range of 5-20gsm. The number of cylinders that may be required by a particular operation can therefore be reduced," points out Pagendarm's UK agent Simplex Turbo (Wherwell Priory, Wherwell, near Andover, Hants SP11 7JH - tel: 0264 860186, fax: 0264 860180).

Pagendarm has also recently concluded an agreement with the Swiss manufacturer Bematec to install its gear-in-die hot melt applicator systems on Pagendarm coaters.

Application is via either

Ozonisers have been introduced by Sherman Treaters to oxidise polymer extrudates on extrusion coating lines, allowing lower die temperatures to be used without reduced adhesion to the carrier web.

"Many modern polymers are more easily extruded at lower die temperatures than those traditionally used, so at temperatures around 300deg C benefits are to be gained which warrant the use of ozonisers," says Sherman (Dormer Road, Thame Industrial Estate, Thame, Oxon OX9 3UW - tel: 0844 213686, fax: 0844 217172). Benefits include improved heat sealability, reduction of odour and off-taste and increased production speeds. In certain extrusion coating applications introduction of the ozoniser can eliminate primers.

For further information K7 Call for details 0839 772288

Ozonisers improve heat sealability and reduce odour and off-taste

contact rollers or contactless from the die, while cold adhesives or polymers can also be handled, says Shepherd (16 Knowsley Road, Hoole, Chester CH2 3RL - tel: 0244 31283, fax: 0244 341283).

Also produced by the company is a slow speed gear pump operating in the range 5-250rpm. Drive is from an explosion-proof motor with variable speed control.

For further information K7 Call for details 0839 772288

Laboratory scale slot die

Slot die manufacturer Shepherd Associates has introduced a 250mm wide unit for hot melt coating on laboratory or small production machinery.

Application is via either

contact rollers or contactless from the die, while cold adhesives or polymers can also be handled, says Shepherd (16 Knowsley Road, Hoole, Chester CH2 3RL - tel: 0244 31283, fax: 0244 341283).

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